

Service Manual

LCD TV

CHASSIS : SL-115P

MODEL : TX-17LX2(UK)

TX-17LX2F(EUROPE)

Power Source

"AC 100-240V, 50/60Hz"

Power Consumption

Average use : 50W

Stand-by condition : 3w

"TV set DC 15v, 1.2A max"

LCD

"17-inch(434.38mm), 15:9
aspect ratio LCD panel"

Screen Size

372.48mm(H) * 223.488mm(V)

Sound

Speaker

"5cm * 9cm, 2pcs, 4Ω "

Audio Output

"5W(2.5W+2.5W), 10%THD"

Headphones

M3(3.5mm) Jack * 1

Receiving Systems / Band name

"PAL B, G, H, SECAM B, G, SECAM L/L"

VHF E2-E12

VHF H1-H2(ITALY)

VHF A-H(ITALY)

UHF E21-E69(UK only)

CATV(S01-S05)

CATV S1-S10 (M1-M10)

CATV S11-S20 (U1-U10)

CATV S21-S41 (Hyperband)

PAL 525/60

Playback of NTSC tape from
some PAL video recorders
(VCR)

M. NTSC

Playback From M. NTSC video
recorders (VCR)

NTSC (AV input only)

Playback From NTSC video
recorders (VCR)

Aerial-ear

UHF(UK only)/VHF

Operating Conditions

Temperature : 5-35°...

Humidity : 5%-90% RH (non-
condensing)

Connection Terminals

AV1 (Scart connector)

"21 Pin socket (Audio/Video
in, Audio/Video out, RGB in)"

AV2

VIDEO

RCA PIN Type * 1

S-VIDEO

Mini DIN 4-pin

AUDIO L-R

RCA PIN Type * 2

Dimensions (W * H * D)

Including TV Stand

532mm * 297mm * 190mm

TV Set Only

532mm * 297mm * 68mm

Weight (Mass)

6.2Kg NET

Note :

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distribution is a violation of law.

Design and Specifications are subject to change without notice.
Weight and Dimensions shown are approximate.

 WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

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1. Safety Instruction

1.1. General Guidelines

1. When servicing, observe the original lead dress. If a short circuit is found, replace all part which have been overheated or damaged by the short circuit.
2. After servicing, see to it that all the protective devices such as insulation barriers, insulation papers shields are properly installed.
3. After servicing, make the following leakage current checks to prevent the customer from being exposed to shock hazards.

1.2. Touch-Current Check

1. Plug the AC cord directly into the AC outlet. Do not use an isolation transformer for this chack.
2. Connect a measuring network for touch currents between each exposed matallic part on the set and a good earth ground such as a water pipe, as shown in Figure1.
3. Use Leakage Current Tester(Simpson 228 or equivalent) to measure the potential across the measuring network.
4. Check each exposed metallic part, and measure the voltage at each point.
6. The potential at any point (TOUGH CURRENT) expressed as voltage U_1 and U_2 , does not exceed the following values:
For a. c.: $U_1 = 35V(\text{peak})$ and $U_2 = 0.35V(\text{peak})$;
For d. c.: $U_1 = 1.0V$,

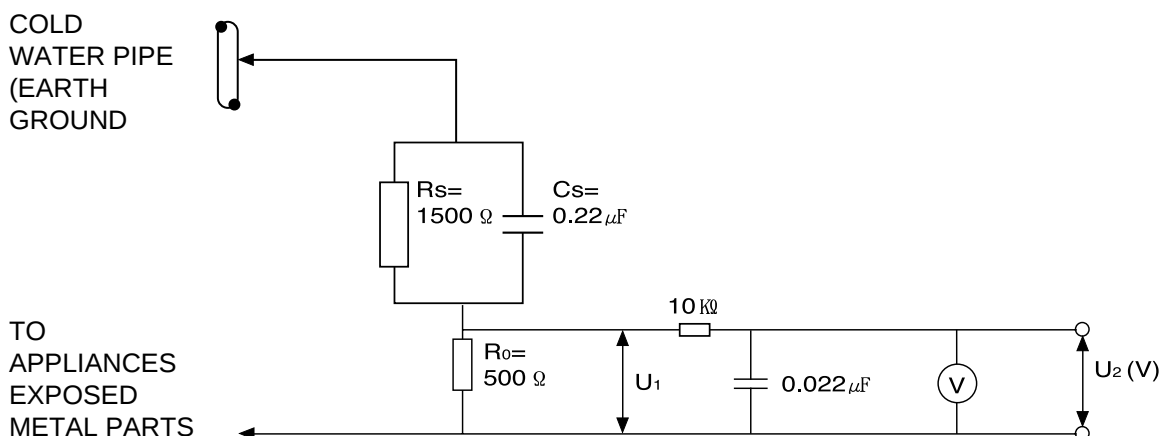
Note:

The limit value of $U_2 = 0.35V(\text{peak})$ for a. c. and $U_1 = 1.0V$ for d. c. correspond to the values 0.7 mA (peak) a. c. and 2.0 mA d. c.

The limit value $U_1 = 35V(\text{peak})$ for a. c. correspond to the value 70 mA(peak) a. c. for frequencies greater than 100kHz.

7. In case a measurement is out of the limits specified, there is a possibility of a shock hazard, and the equipment should be repaired and rechecked before it is returned to the customer.

Measuring network for TOUCH CURRENTS



Resistance values in ohms(Ω)

V: Voltmeter or oscilloscope(r.m.s. or peak reading)

Input resistance: $\geq 1M \Omega$

Input capacitance: $\leq 200 pF$

Frequency range: 15Hz to 1 MHz and d.c. respectively

NOTE - Appropriate measures should be taken to obtain the correct value in case of non-sinusoidal waveforms.

Figure 1

2 Prevention of Electro Static Discharge (ESD) to Electrostatically Sensitive(ES) Devices

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically Sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field-effect transistors and semiconductor “chip” components. The following techniques should be used to help reduce the incidence of component damage caused by electro static discharge(ESD).

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any ESD on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging ESD wrist strap, which should be removed for potential shock reasons prior to applying power to the unit under test.
2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
3. Use only a grounded-tip soldering iron to solder or unsolder ES devices.
4. Use only an anti-static solder removal device. Some solder removal devices not classified as “anti-static(ESD protected)” can generate electrical charge sufficient to damage ES devices.
5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it.(Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive material).
7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.

Caution

Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.

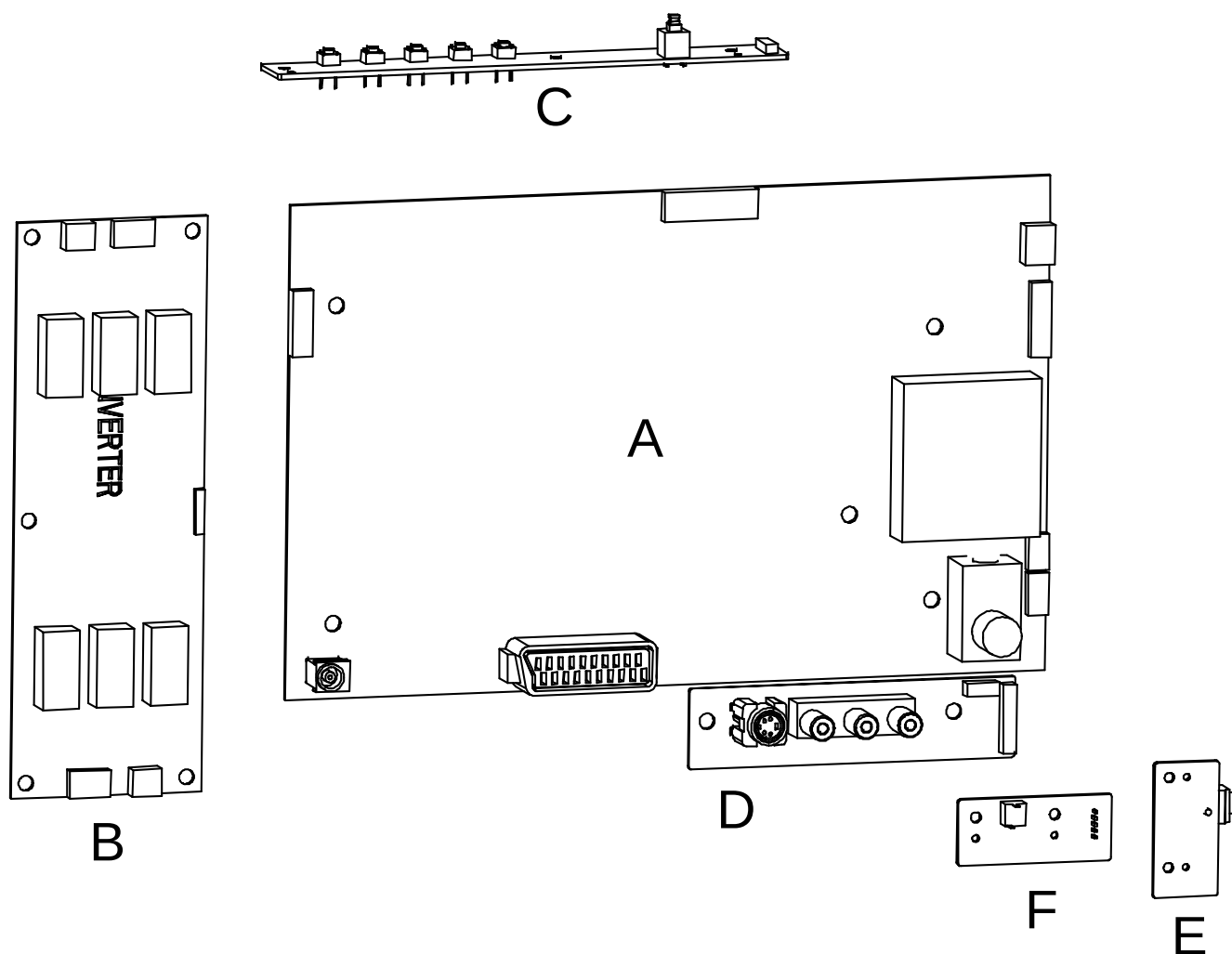
8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity (ESD) sufficient to damage an ES device).

IMPORTANT SAFETY NOTICE

There are special components used in this equipment which are important for safety.

These parts are marked by $\triangle$ in the schematic diagrams, Exploded Views and replacement parts list. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent shock, fire, or other hazards. Do not modify the original design without permission of manufacturer.

3. Chasis Board Layout

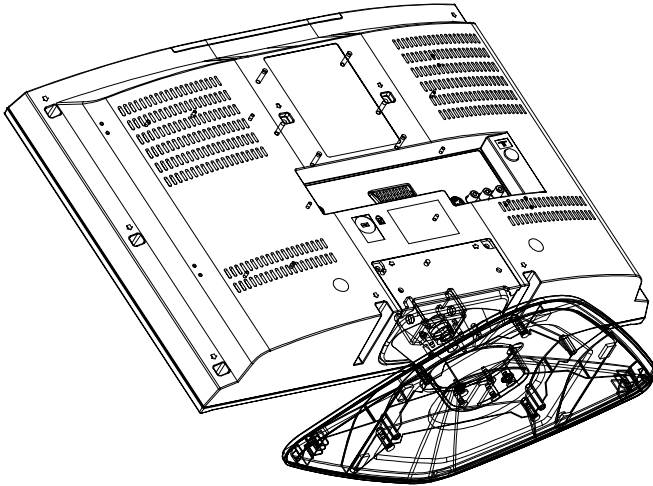


Board Name	Function
A-Board	MAIN PCB
B-Board	INVERTER PCB
C-Board	CONTROL PCB
D-Board	AV PCB
E-Board	E/PHONE PCB
F-Board	IR/LED PCB

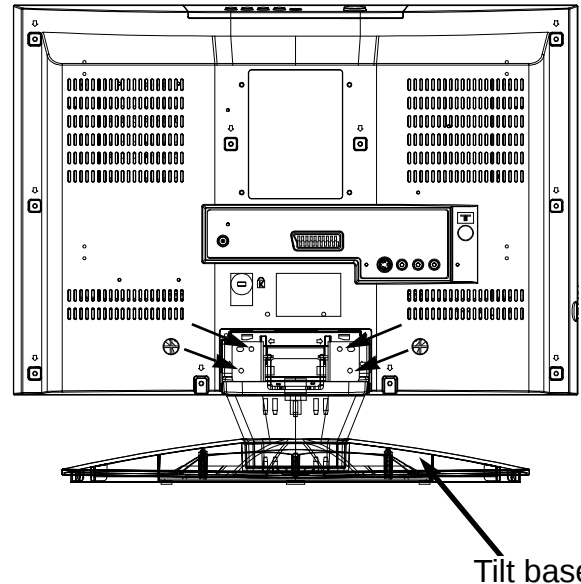
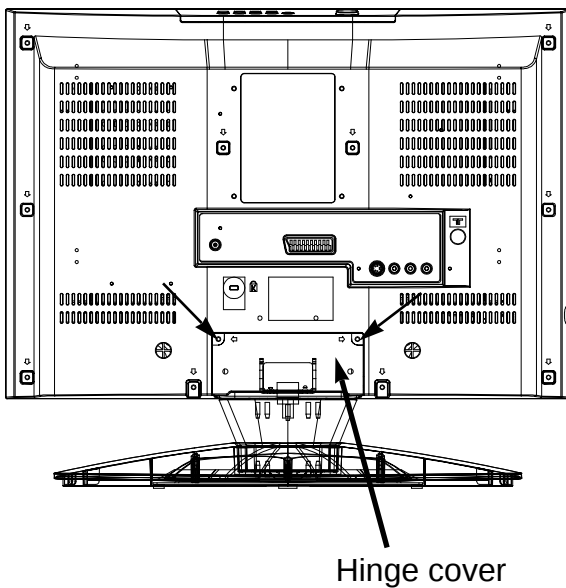
4. Servicing method

4.1. Removing the tilt base

1. Lay down the main unit so that the rear cover faces upward.
4. Remove the fixing screws(4pcs).
5. Remove the tilt base.

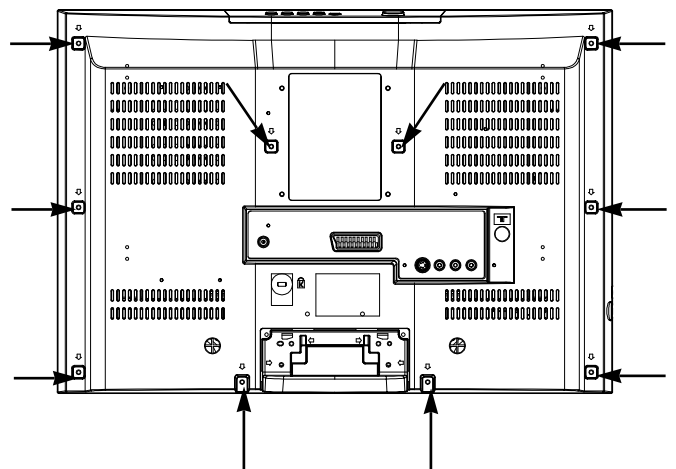


2. Remove the fixing screw(2pcs).
3. Remove the hinge cover.



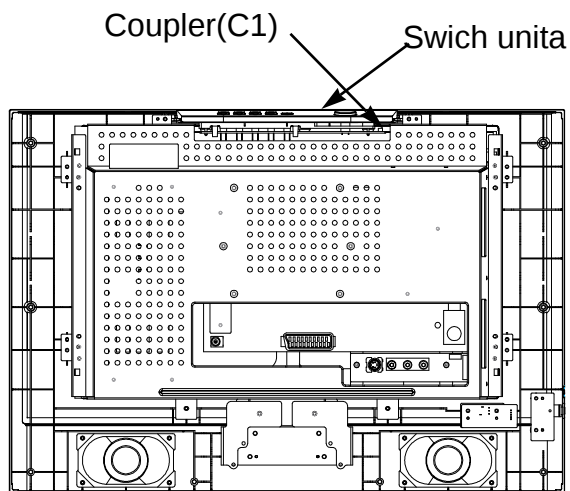
4.2. Removing the rear cover

1. Remove the tilt base.(See 5.1.)
2. Remove the fixing screw(10pcs)
3. Remove the rear cover.



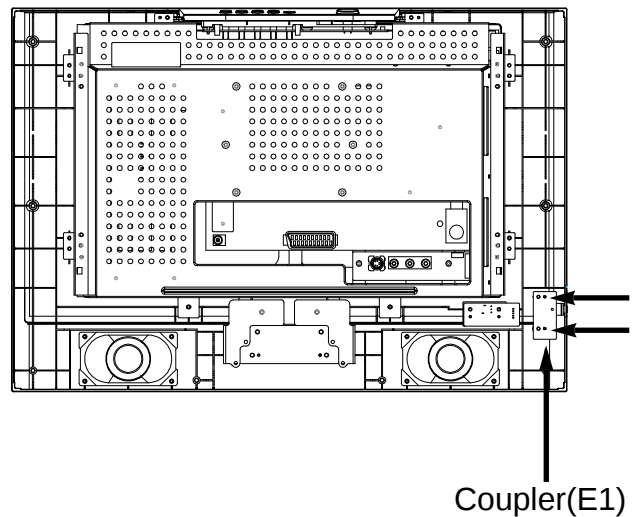
4.3. Removing the switch unit

1. Remove the rear cover(See 5.2.)
2. Disconnect the coupler(C1).
3. Remove the fixing screws(2pcs).
4. Remove the switch unit.



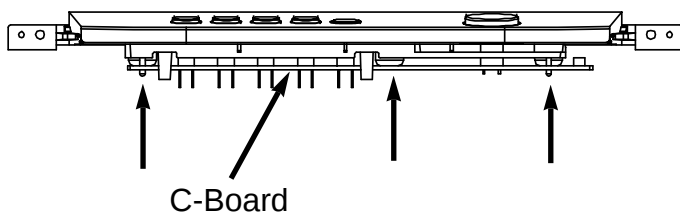
4.5. Removing the E-Board

1. Remove the rear cover(See 5.2.)
2. Disconnect the coupler(E1).
3. Remove the fixing screws(2pcs).
4. Remove the E-Board.



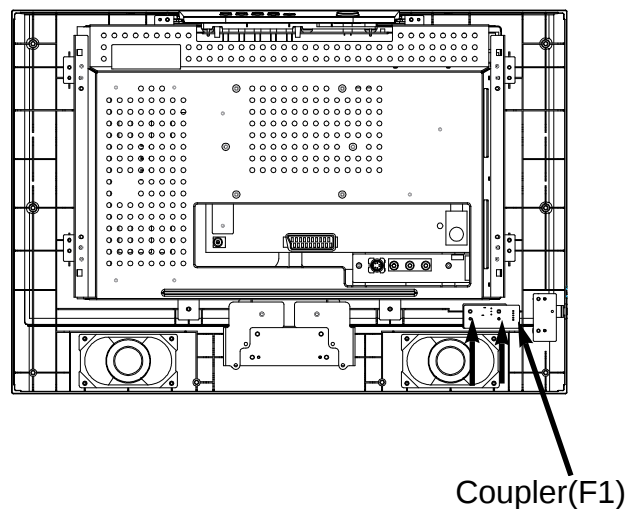
4.4. Removing the C-Board

1. Remove the switch unit(See 5.3.)
2. Remove the fixing screws(3pcs)
3. Remove the C-Board.



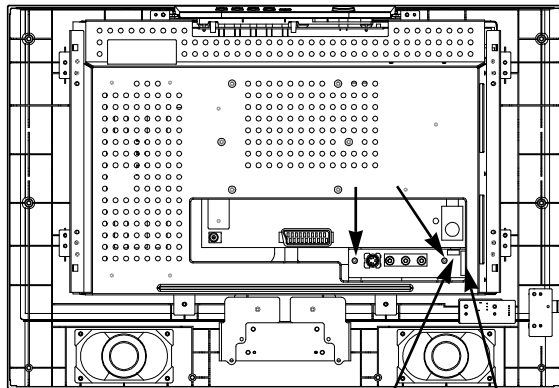
4.6. Removing the F-Board

1. Remove the rear cover(See 5.2.)
2. Disconnect the coupler(F1).
3. Remove the fixing screws(2pcs).
4. Remove the F-Board.



4.7. Removing the D-Board

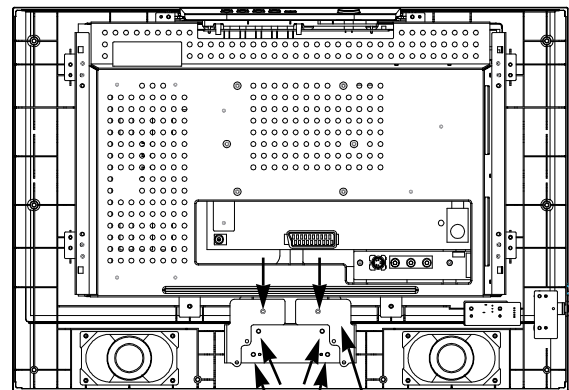
1. Remove the rear cover(See 5.2.)
2. Disconnect the coupler(D1,D2).
3. Remove the fixing screws(2pcs).
4. Remove the D-Board.



Coupler(D2) Coupler(D1)

4.9. Removing the BRKT hinge

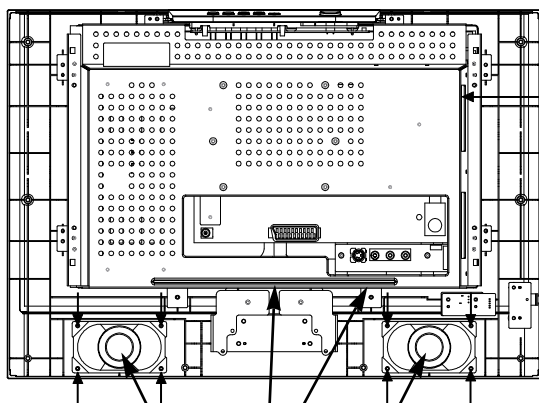
1. Remove the rear cover(See 5.2.)
2. Remove the fixing screws(6pcs).
3. Remove the BRKT hinge.



BRKT hinge

4.8. Removing the Speaker unit

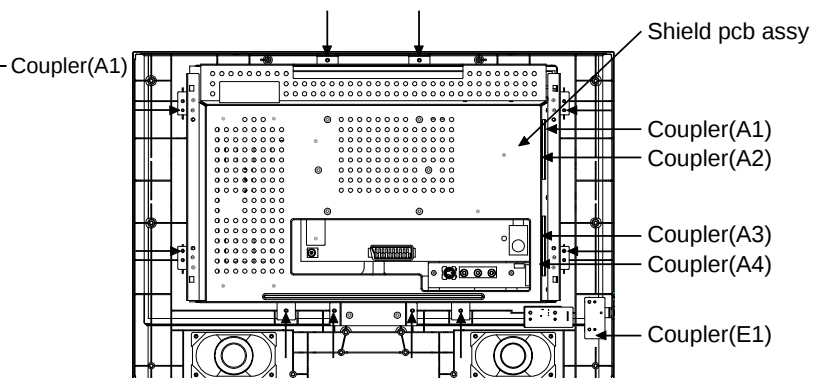
1. Remove the rear cover(See 5.2.)
2. Remove the fixing screws(8pcs).
3. Disconnect the coupler(A1), and unlock the cable clamber and hook to free the cable.
4. Remove the speaker units.



Clamber
Speaker

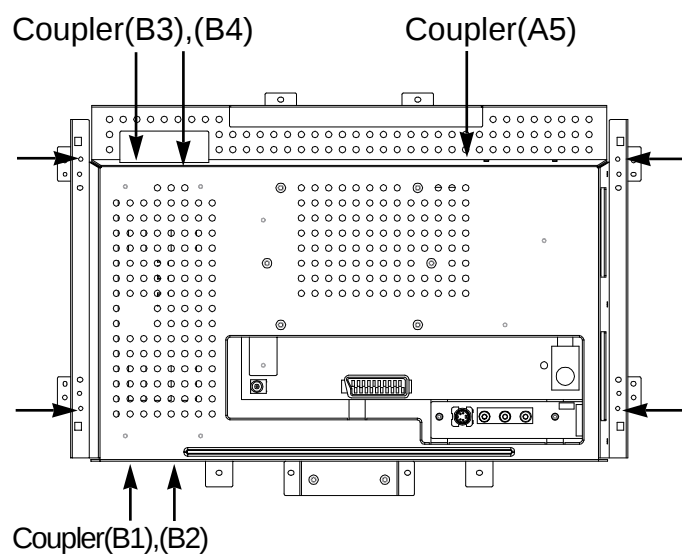
4.10. Removing the Shield pcb assy.

1. Remove the Switch unit(See 5.3.)
2. Remove the BRKT hinge(See 5.9.)
3. Remove the fixing screws(10pcs).
4. Disconnect the coupler (A1), (A2), (A3), (A4), (E1).
5. Remove the Shield pcb assy.



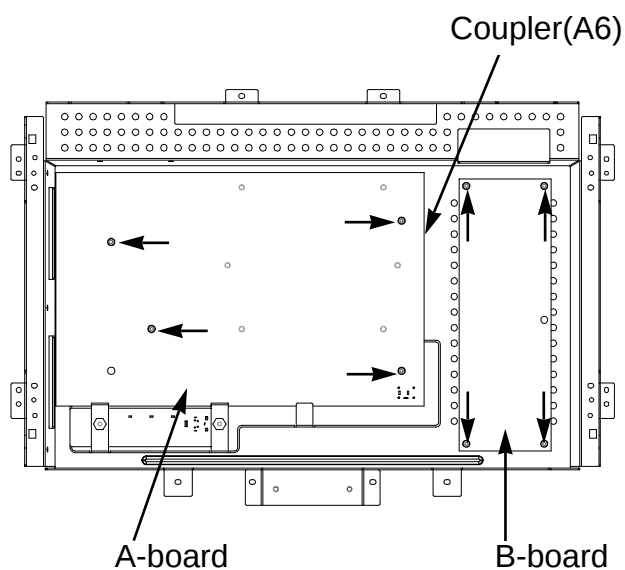
4.11. Removing the LCD panel.

1. Remove the Shield pcb assy.(See 5.10.)
2. Remove the fixing screws(4pcs).
3. Disconnect the coupler (A5), (B1), (B2), (B3), (B4).
4. Remove the LCD panel.



4.12. Removing the A-board, B-board.

1. Remove the LCD panel.(See 5.11.)
2. Remove the fixing screws(8pcs).
3. Disconnect the coupler(A6).
4. Remove the A-board, B-board.



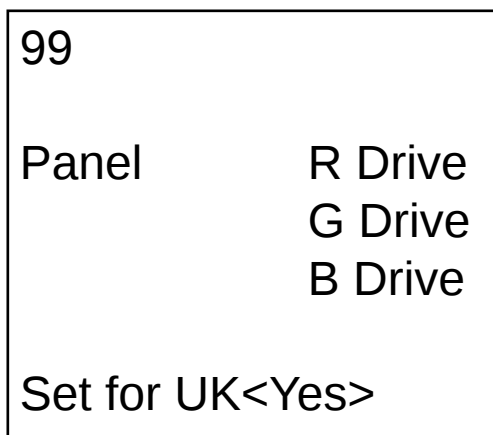
5. Service Mode Function

The following setting and adjustment can be adjusted by remote control in Service Mode.

6.1. How to enter SERVICE 1

1. Set the channel to CH99.
2. Press HOLD button on remote control.

Note: To exit to Service mode, press N or Power button on remote control.



Key Command

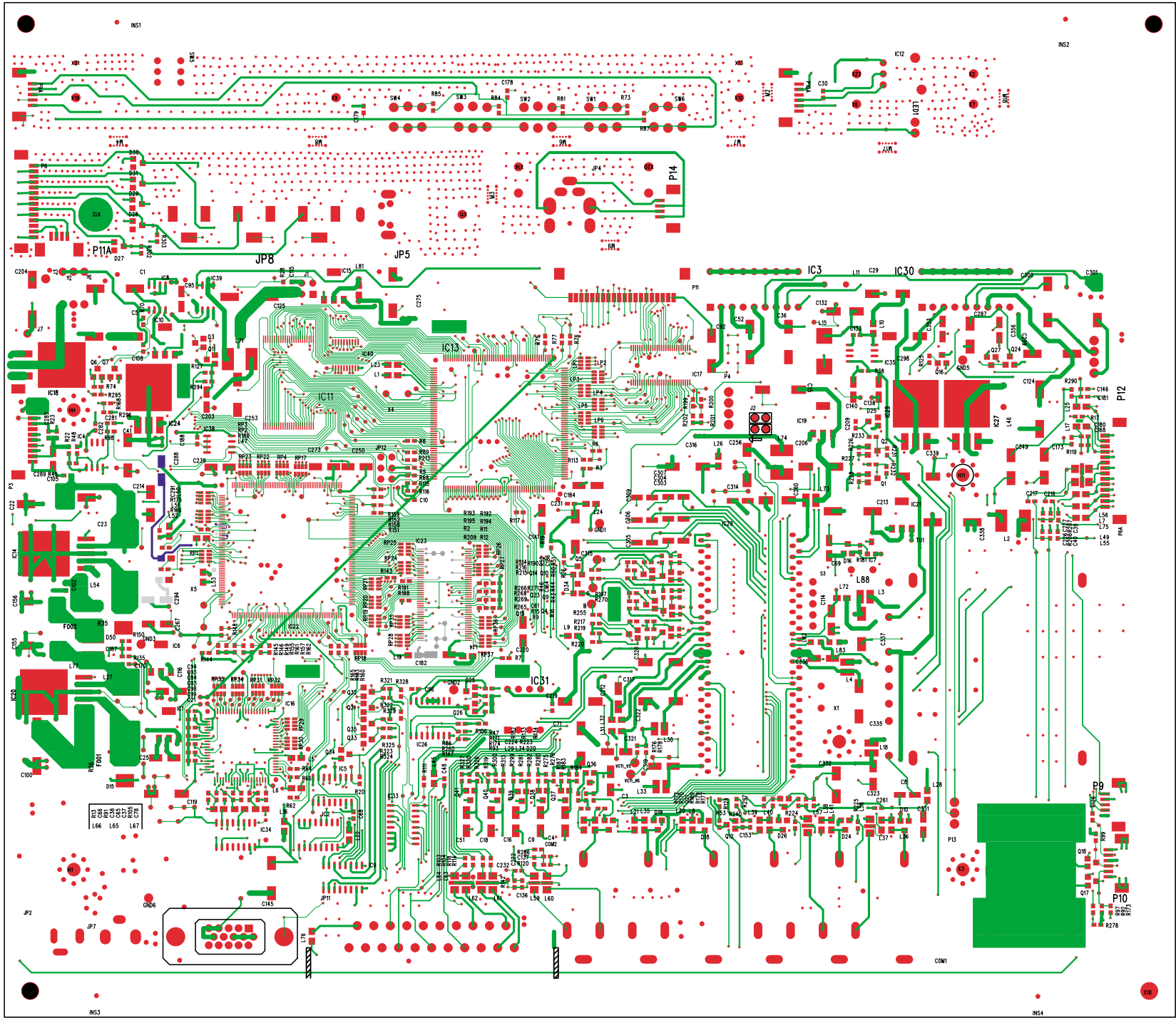
Press the top and bottom key, and select the functions.

Use left and right key to control the function values.

6. Conductor Views

6.1. MAIN PCB (TOP)

5
4
3
2
1

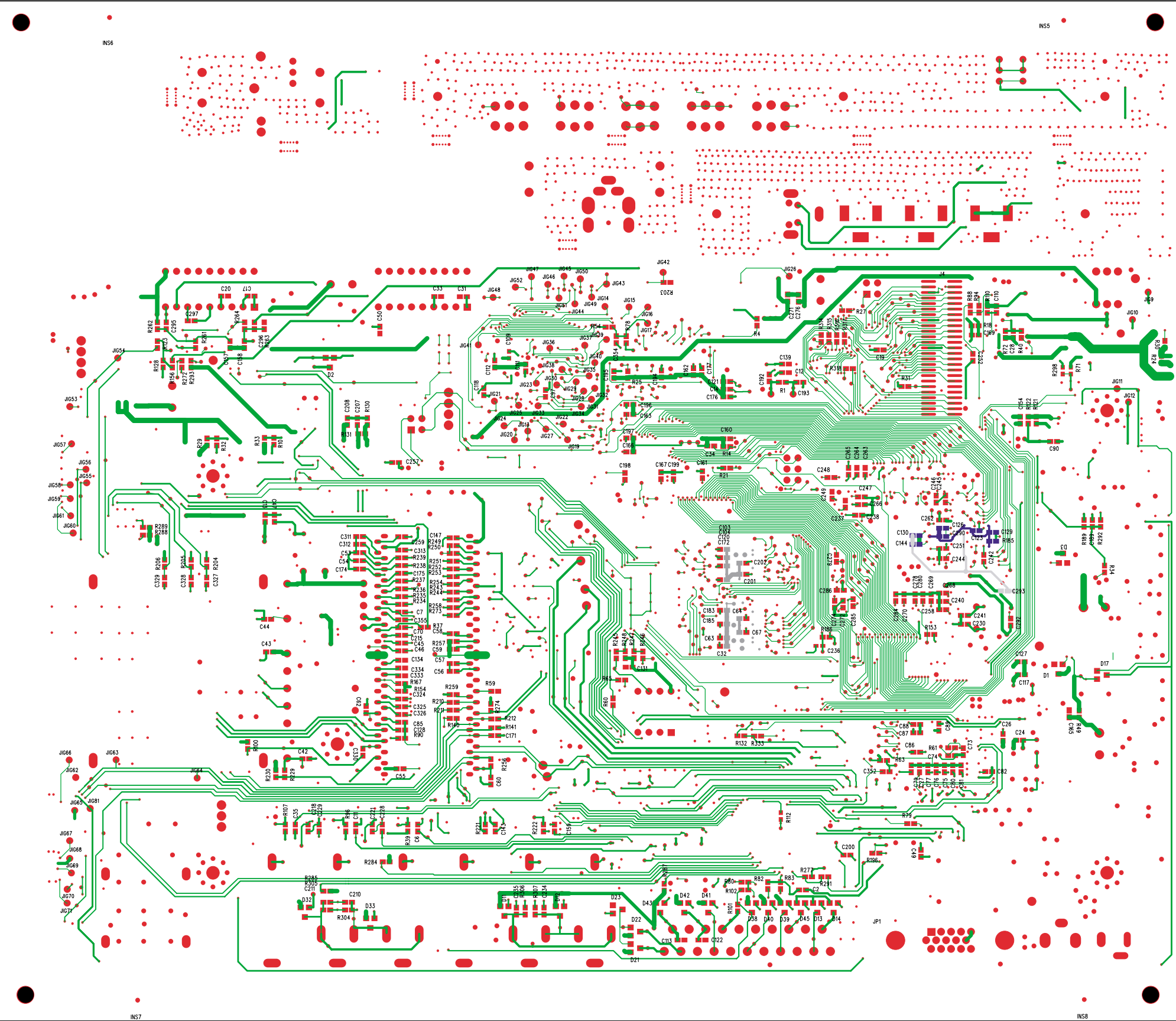


A B C D E F G

PART LOCATION			
IC		TRANSISTOR	
IC1	A-2	Q1	F-3
IC2	B-1	Q2	F-3
IC3	E-4	Q3	B-4
IC4	A-3	Q4	D-2
IC5	B-2	Q5	D-3
IC6	A-2	Q6	A-3
IC7	E-3	Q7	A-3
IC8	A-4	Q9	D-2
IC9	B-1	Q10	D-3
IC10	A-4	Q11	B-4
IC11	B-3	Q12	E-1
IC12	F-5	Q14	D-3
IC13	C-3	Q15	D-2
IC14	A-3	Q16	F-4
IC15	B-4	Q17	G-1
IC16	B-2	Q18	G-1
IC17	D-4	Q21	F-1
IC18	A-4	Q23	D-2
IC19	E-3	Q24	F-4
IC20	A-2	Q25	C-2
IC21	F-3	Q26	C-2
IC22	B-3	Q27	F-4
IC23	C-2	Q31	C-2
IC24	A-3	Q32	C-2
IC25	F-3	Q33	C-2
IC26	C-2	Q34	B-2
IC27	F-3	Q35	C-2
IC29	E-3	Q36	D-2
IC30	F-4	Q37	D-2
IC31	C-2	Q38	D-2
IC33	C-1	Q39	C-2
IC34	B-1	Q40	C-2
IC35	E-4	Q41	C-2
IC38	B-3		
IC39	B-4		
IC40	B-4		

AUTOTELE.NET					
BOARD NAME	REV	LAYER	GBR_NAME	DESIGN_DATE	DESIGN
SL-110PN_LP	1.0	4	COMP	2004.03.29	Shin. M.J
Designed by IN-CAD Corp. (031-444-1692/incad@in-cad.com)					

6.2. MAIN PCB (BOTTOM)



7 Block and Schematic Diagrams

7.1. Schematic Diagram Notes

Important Safety Notice

Components identified by  mark have special characteristics important for safety. When replacing any of these components, use only manufacture's specified parts.

Notes:

1. Resistor

All resistors are cabon 1/4W resistor, unless marked as follows:

Unit of resistance is OHM[Ω] (K=1,000, M=1,000,000).

○ : Nonflammable

△ : Solid

▣ : Wire Wound

⊠ : Metal Oxide

◎ : Metal Film

⊗ : Fuse

2. Capacitor

All capacitors are ceramic 50V capacitor, unless marked as follows:

Unit of capacitance is μF, unless otherwise noted.

⊗ : Temperature Compensation

Ⓜ : Polyester

Ⓜ : Metalized Polyester

⊗ : Polypropylene

⚡ : Electrolytic

⚡ : Bipolar

Ⓜ : Dipped Tantalum

Ⓜ : Z-Type

3. Coil

Unit of inductance is μF, unless otherwise noted.

4. Test Point

♀ : Test Point position

5. Earth Symbol

⚡ : Chassis Earth (Cold)

↓ : Line Earth (Hot)

6. Voltage Meaaurement

Voltage is measured by a DC voltmeter.

Conditions of the measurement are the following:

Power Source AC 100-240V, 50/60Hz

Receiving Signal Colour Bar signal(RF)

All customer's controls Maximum positions

7. Number in red circle indicates waveform nember.

(See wavefom pattern table.)

8. When arrow mark(↗) is found, connection is easily found from the direction of arrow

9. Indicates the major signal flow. : Video➡ Audio⇨

10. This schematic diagram is the latest at the time of printing and subject to change without notice.

Remarks:

1. The Power Circuit contains a circuit area which uses a separate power supply to isolate the earth connection.

The circuit is defined by HOT and COLD indications in the schematic diagram. Take the follwing precautions.

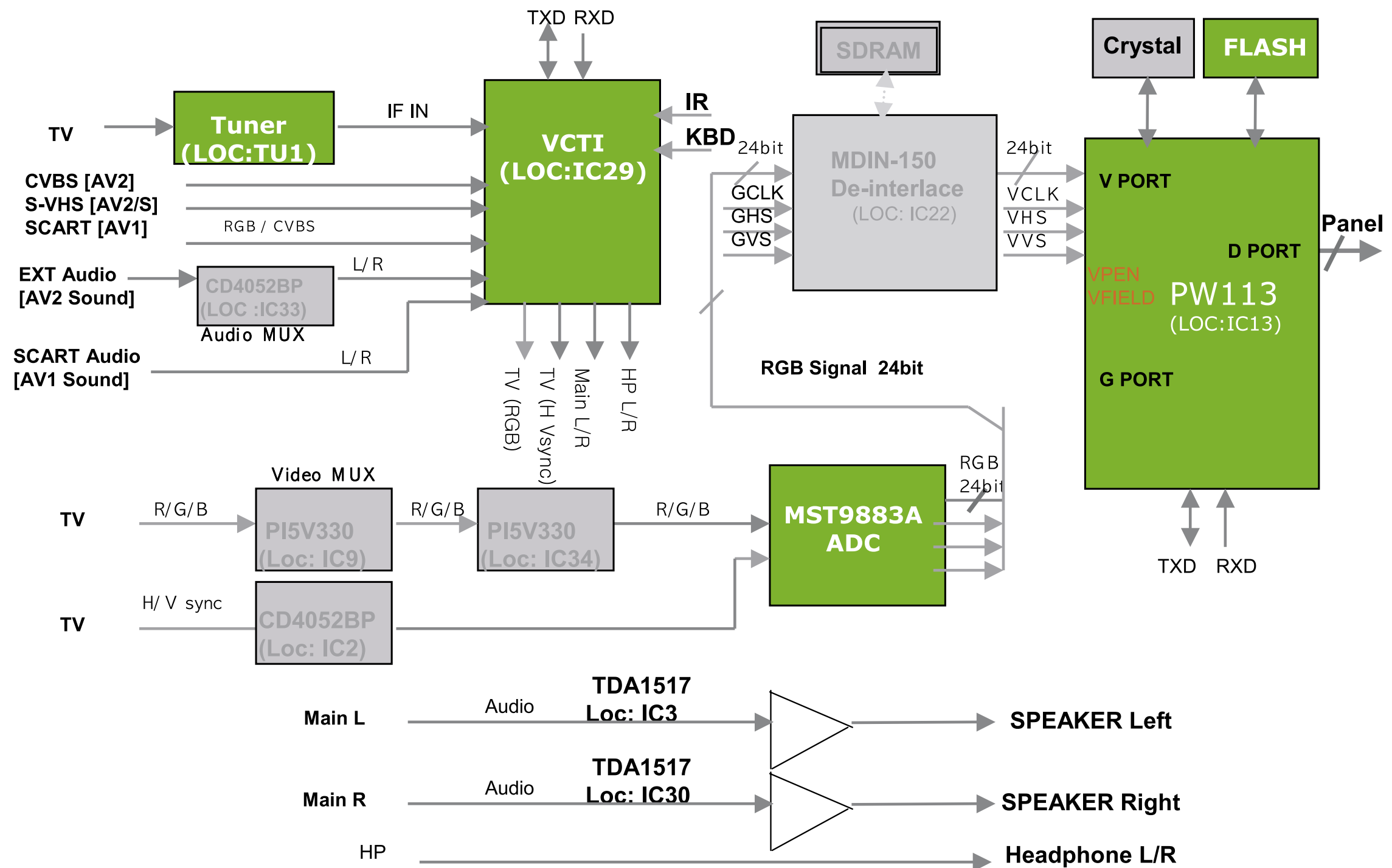
All circuits, except the Power Circuit, are cold.

Precautions

- a. Do not touch the hot part or the hot and cold parts at the same time or you may be shocked.
 - b. Do not short-circuit the hot and cold circuits or a fuse may blow and parts may break.
 - c. Do not connect an instrument, such as an oscilloscope, to the hot and cold circuits simultaneously or a fuse may blow.
Connect the earth of instruments to the earth connection of the circuit being measured.
 - d. Make sure to disconnect the power plug before removing the chassis.
2. Following diodes are interchangeable.
MA150-MA162(Replacement part)

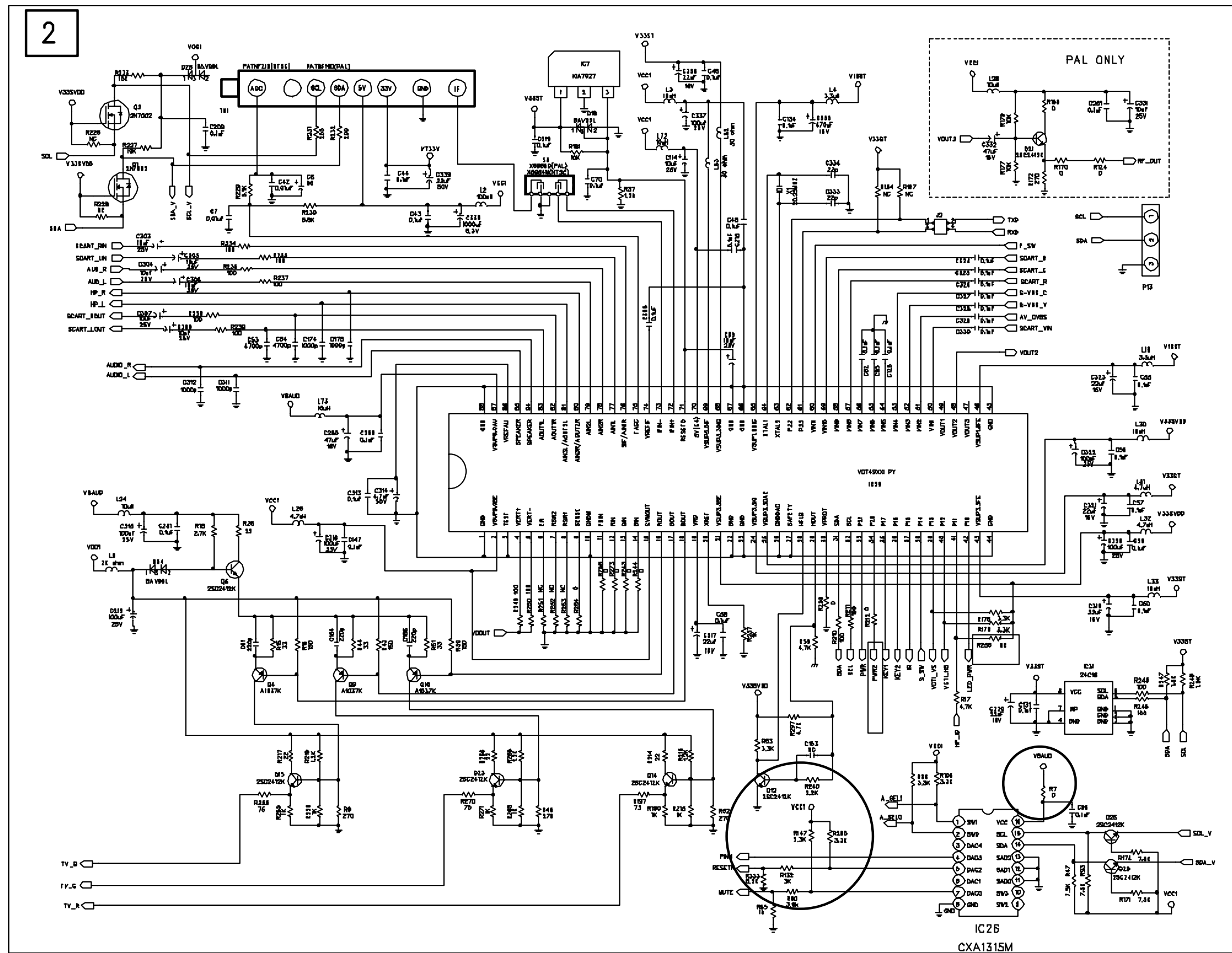
7.2. Signal Block Diagram

Signal Block

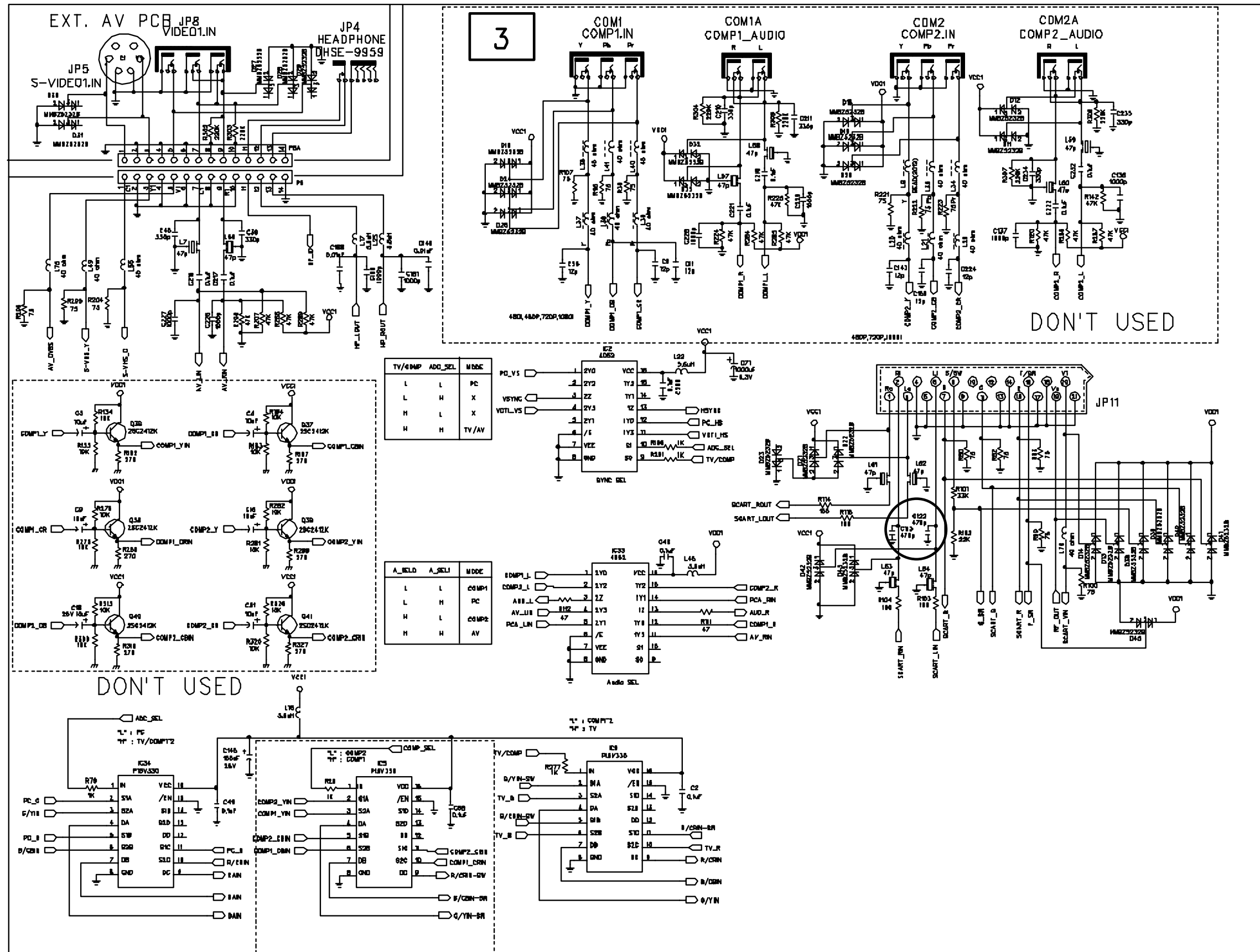




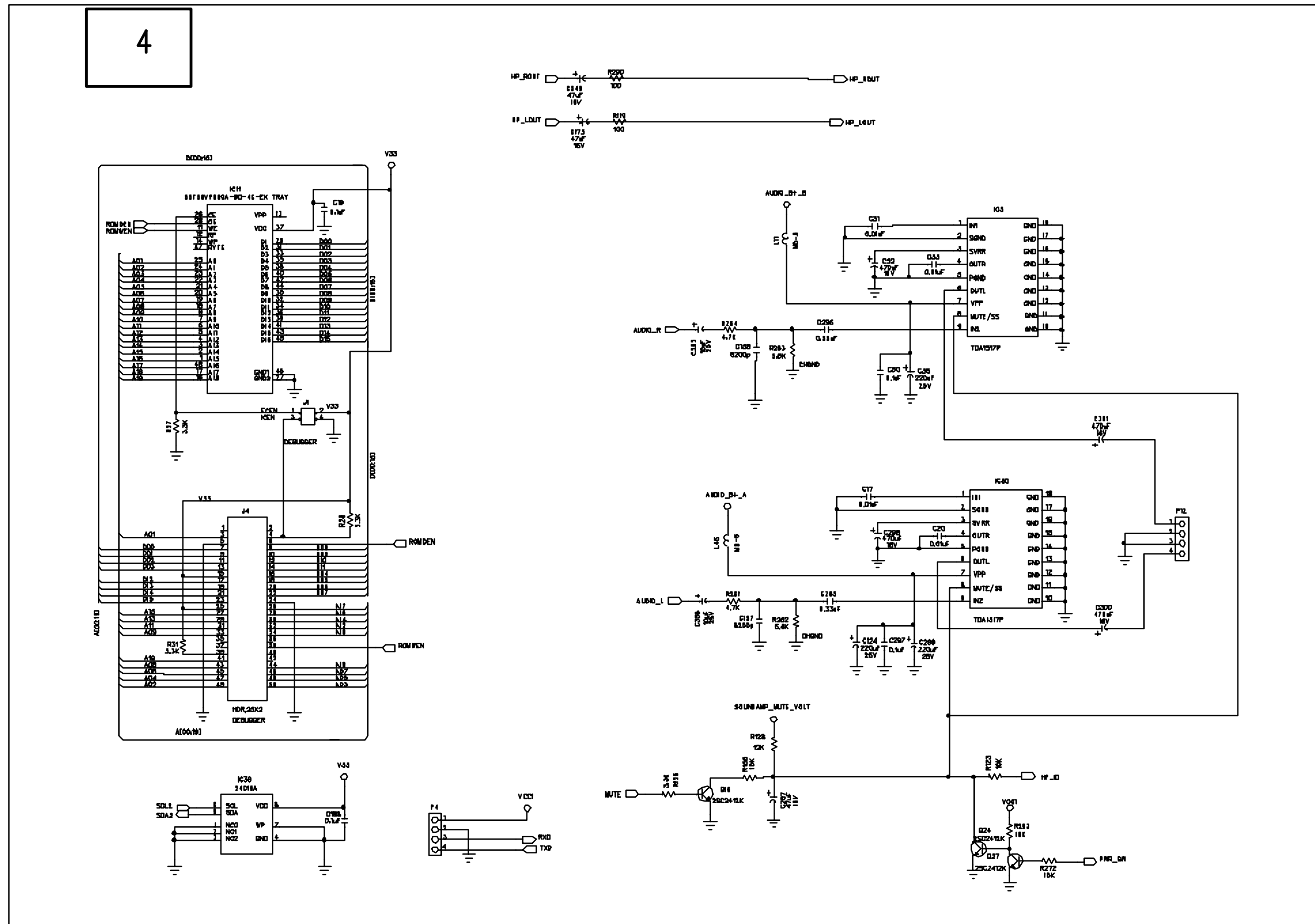
7.4. VCTI Schematic Diagram



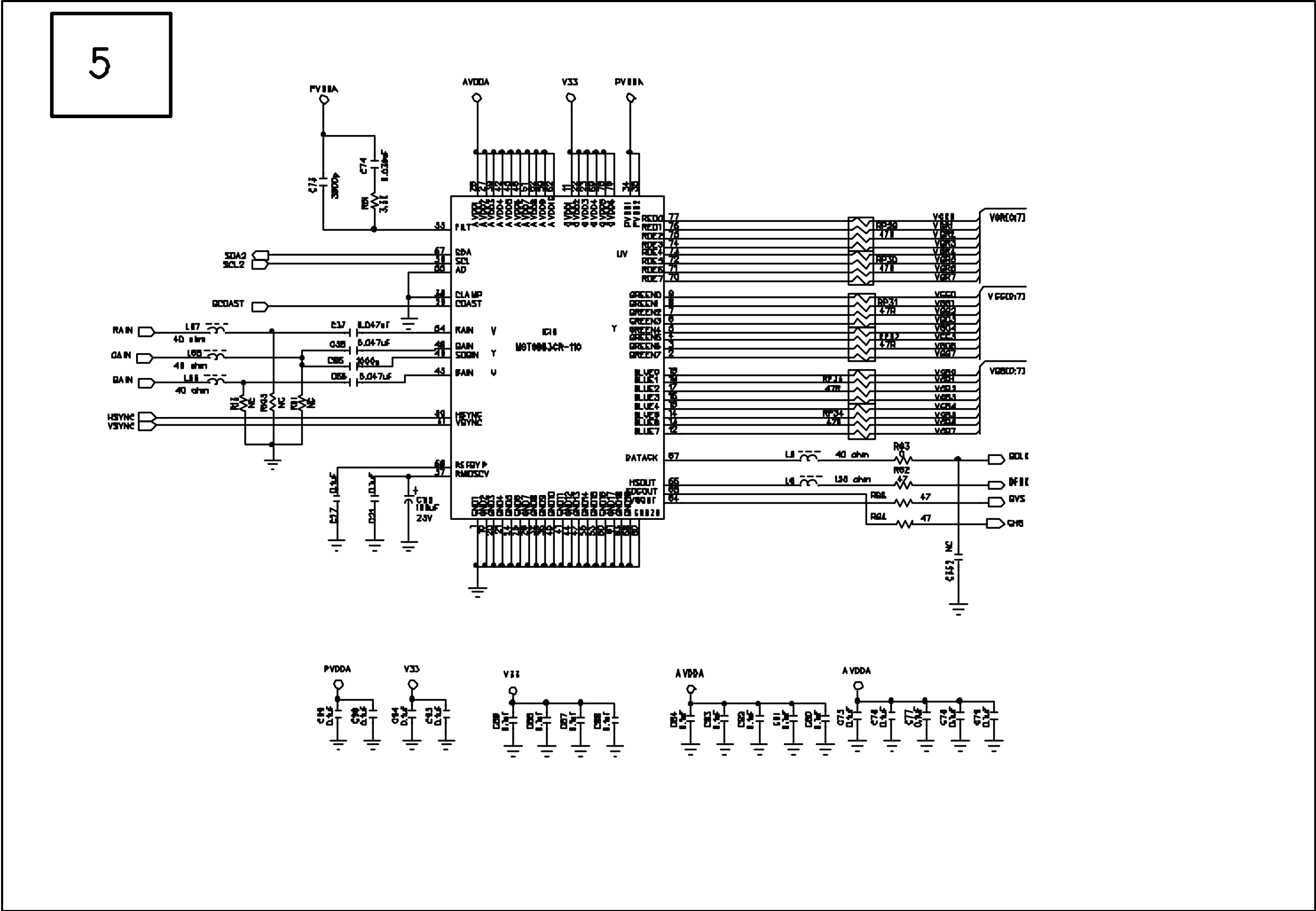
7.5. Input Schematic Diagram



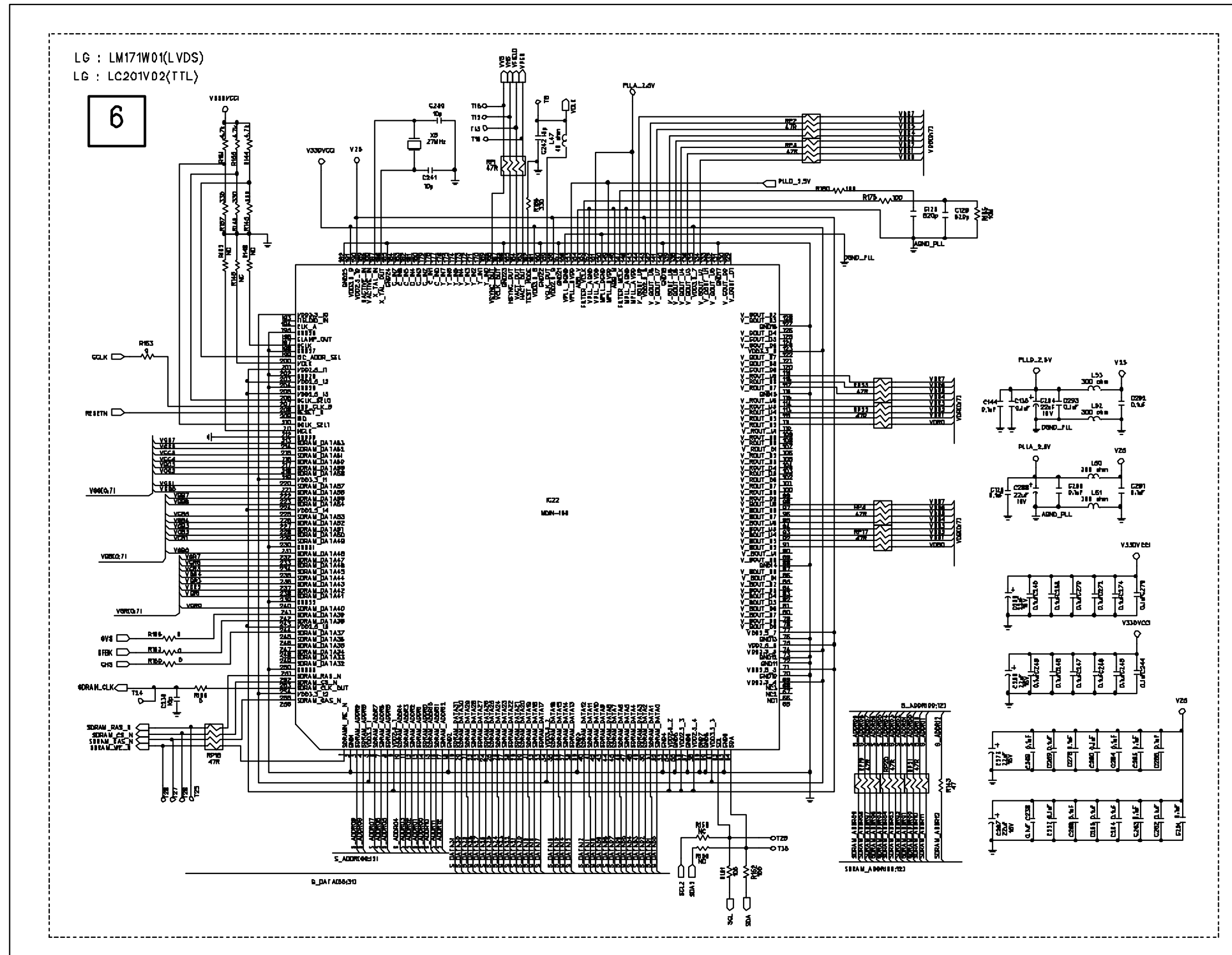
7.6. Memory AMP Schematic Diagram



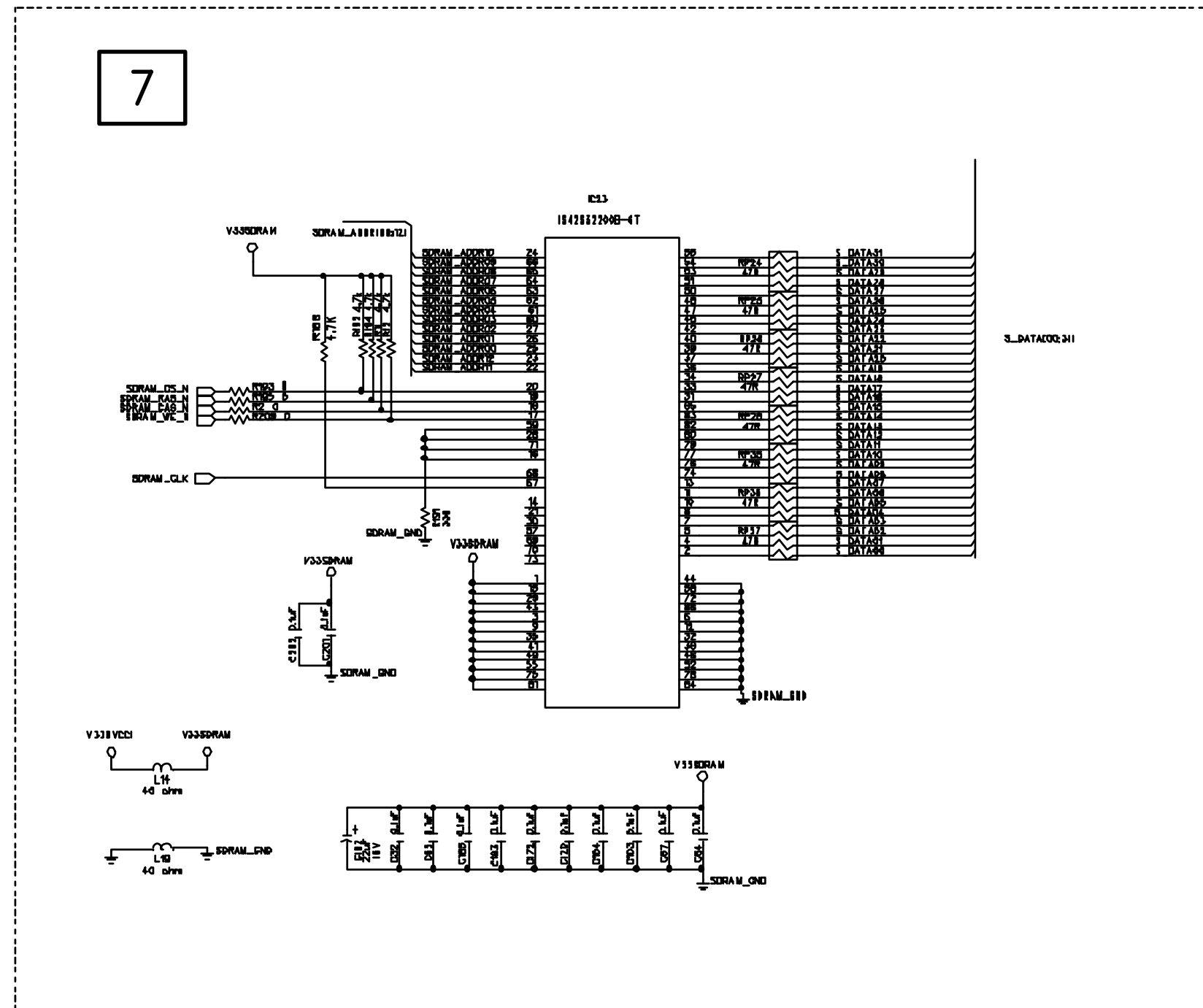
7.7. AD9883 Schematic Diagram



7.8. Deinterlace Schematic Diagram

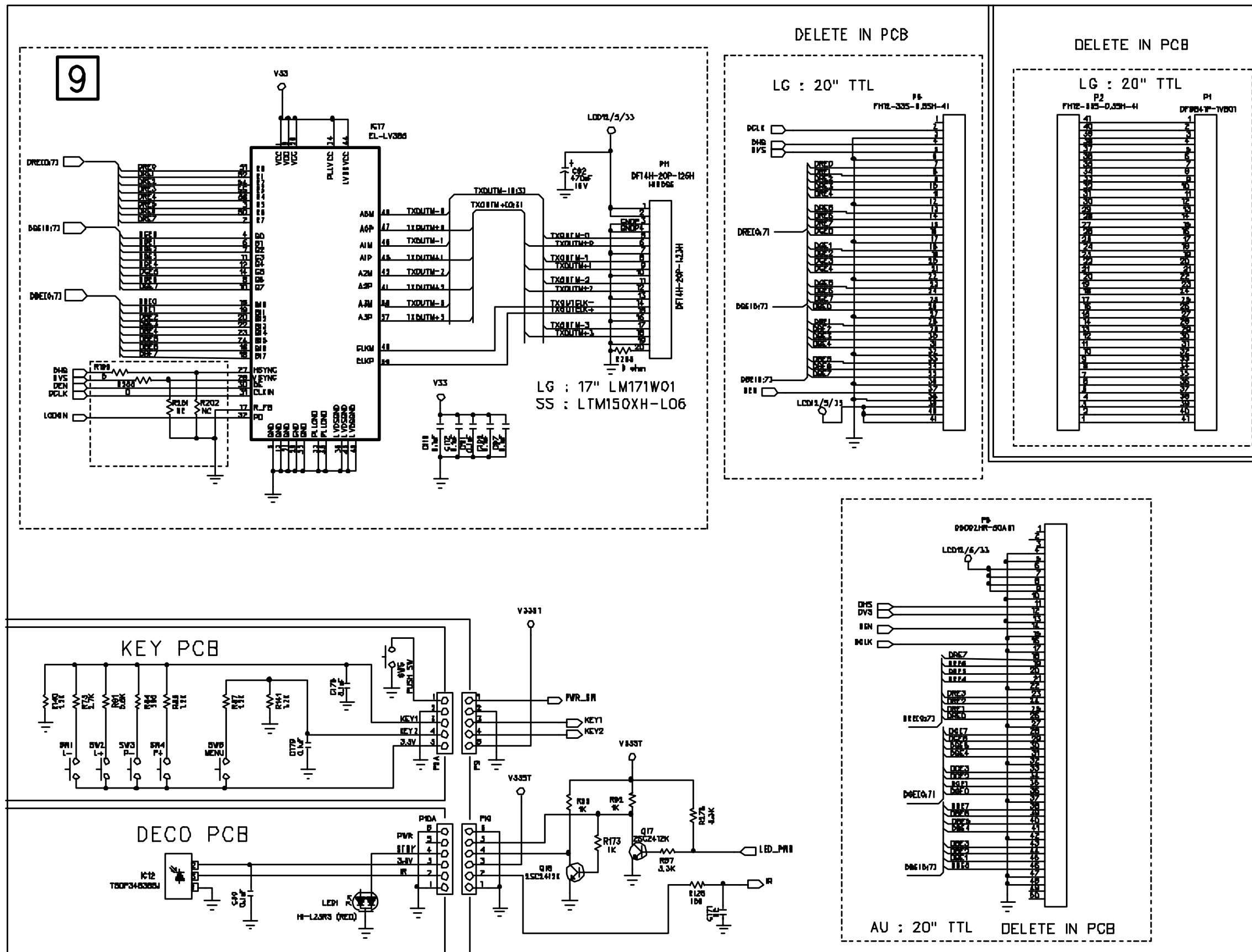


7.9. SDRAM Schematic Diagram



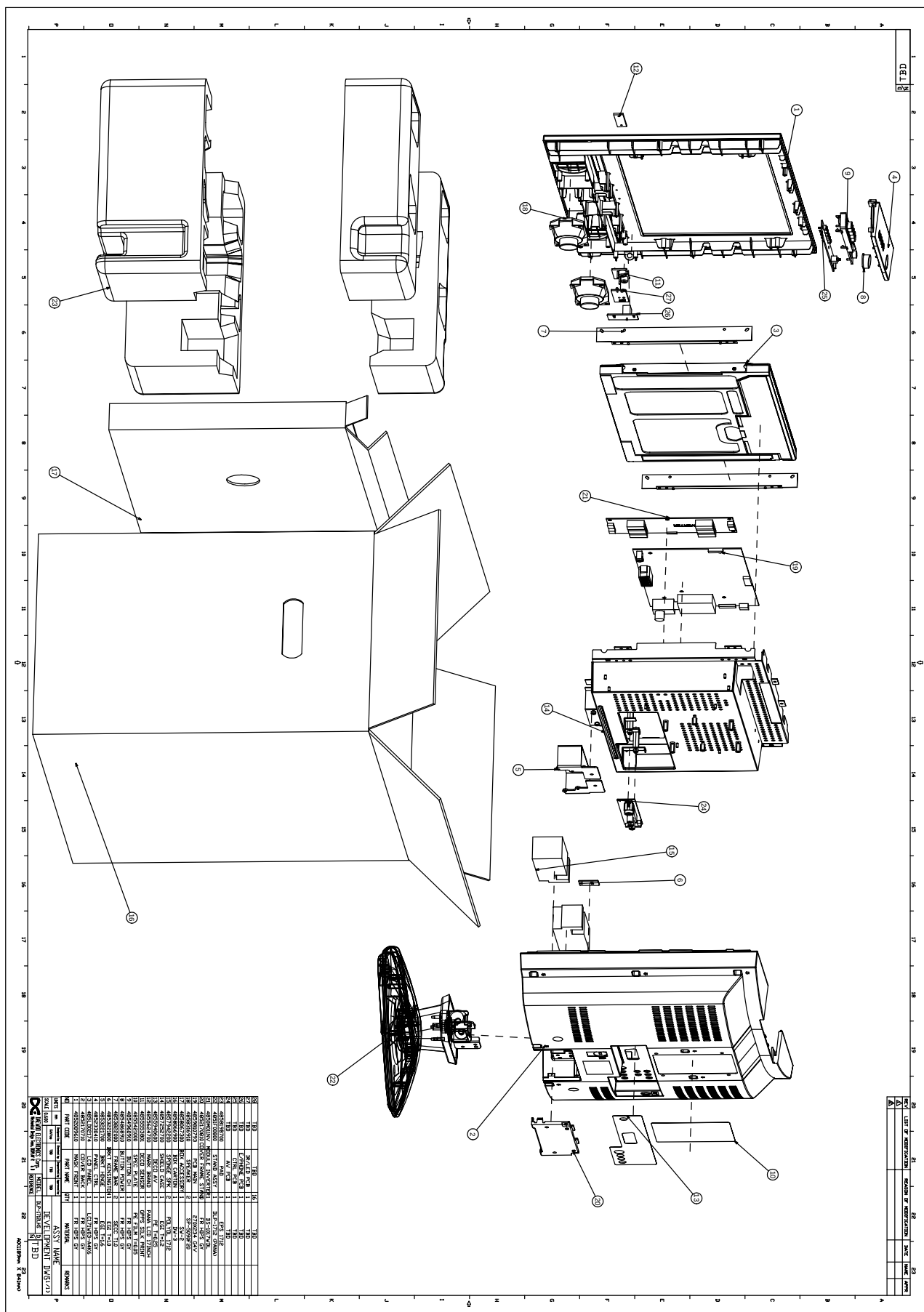


7.11. LVDS, KEY Schematic Diagram

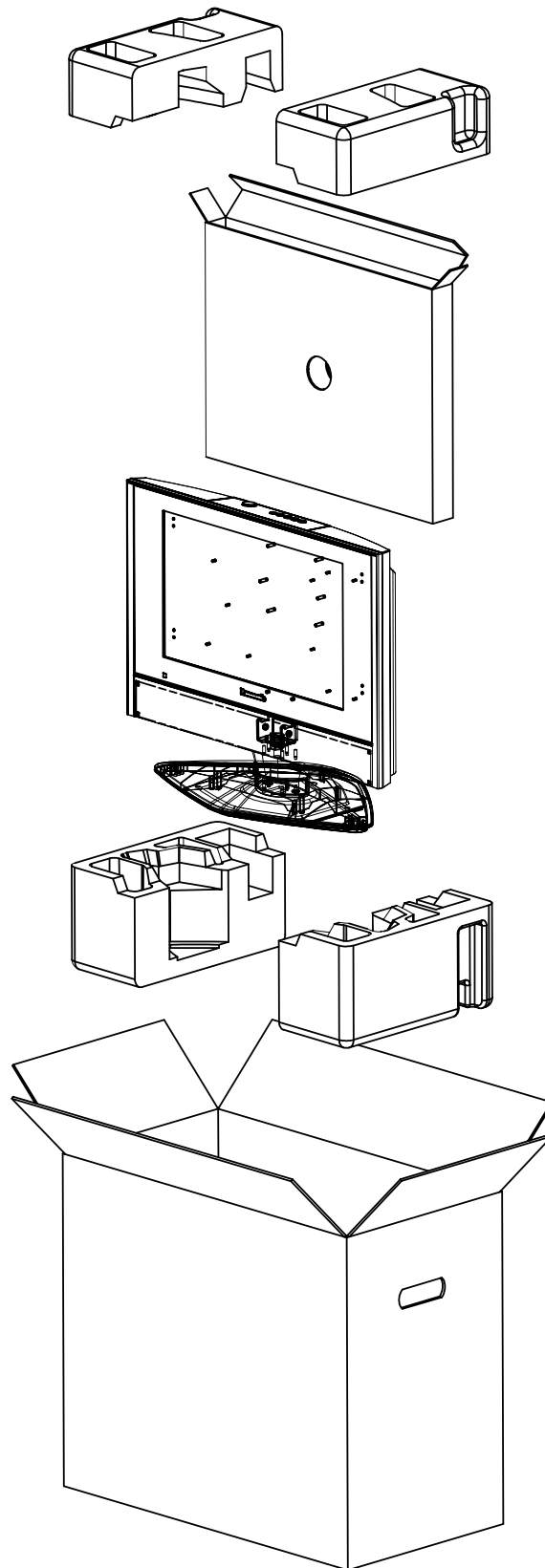


8. Parts Location & Mechanical Replacement Parts List

8.1. Parts Location



8.2. Packing Exploded View



9. Service Part List

LOC	PART CODE	PART NAME	DESCRIPTION	REMARK
ZZ100	488EUR7636	TRANSMITTER REMOCON	EUR7636060	
ZZ110	PTACPWA941	ACCESSORY AS	DLP-1712LHS	
00020	4859000130	PLUG ANT	TJB1726400(PANASONIC)	
M822	4858219401	BAG INSTRUCTION	L.D.P.E T0.05X280X470	
ZZ120	PTBCSHA941	COVER BACK AS	DLP-1712LHS	
M211	4852170710	COVER BACK	FR PPE+PS GY	
M321	4853221800	BRKT KENSINGTON	SECC T=1.0	
M591	4855940600	DECO AV	PS T=0.3	
M781	4857818704	CLOTH BLACK	FELT T0.7 L=55 W=15	
M782	4857818705	CLOTH BLACK	FELT T0.7 L=110 W=15	
ZZ130	PTPKCPA941	PACKING AS	DLP-1712LHS	
0010	6520010100	STAPLE PIN	AUTO W65	
M801	4858066900	BOX CARTON	DW-3	
M802	4858067300	BOX ACCESSORY	SW-2	
M811	485819B700	PAD	EPS 1712	
M821	4858220001	BAG P.E	PE FOAM T0.5X800X800	
ZZ140	PTCACA941	CABINET AS	DLP-1712LHS	
ADT1	4859000940	ADAPTER	N03ZHK000011	
JP401	7178301012	SCREW TAPPTITE	TT2 WAS 3X10 MFZN BK	M201+ HEADPHONE JACK
M1F1	4851F00800	STAND AS	DLP-1712 (PANA)	
M1F1A	7172401612	SCREW TAPPTITE	TT2 TRS 4X16 MFZN BK	M1F1+M211
M211A	7172401612	SCREW TAPPTITE	TT2 TRS 4X16 MFZN BK	M211+M201
M211B	7002400812	SCREW MACHINE	TRS 4X8 MFZN BK	M211+M721
M211C	4852170810	COVER FRAME STAND	FR PPE+PS GY	
M211D	7172401612	SCREW TAPPTITE	TT2 TRS 4X16 MFZN BK	M211+M211C
M211E	4855421000	SPEC PLATE	PE FILM T=0.05	
M231	4852330410	PANEL CTRL	FR PPE+PS GY	
M231A	7178301011	SCREW TAPPTITE	TT2 WAS 3X10 MFZN	
M321	4853221700	BRKT HINGE	SECC T1.6	
M321A	7172401612	SCREW TAPPTITE	TT2 TRS 4X16 MFZN BK	M321+M201
M321B	7002400812	SCREW MACHINE	TRS 4X8 MFZN BK	M321+M721
M381	4853822000	FRAME BAR	SECC T1.0	
M381A	7008300611	SCREW MACHINE	WAS 3X6 MFZN	M381+PANEL
M381B	7008300611	SCREW MACHINE	WAS 3X6 MFZN	M381+PANEL
M481	4854868910	BUTTON POWER	FR PPE+PS GY	
M491	4854960910	BUTTON CH	FR PPE+PS GY	
M491A	7178301011	SCREW TAPPTITE	TT2 WAS 3X10 MFZN	
M551	4855553801	DECO SENSOR	GPPS SILK PRINT	
M551A	7178301011	SCREW TAPPTITE	TT2 WAS 3X10 MFZN	
M681	4856819000	CLAMP WIRE	NYLON 66	
M682	4856819100	CLAMP WIRE	NYLON 66 BK	
M721	4857252700	SHIELD CASE	SECC T1.2	
M721A	7008300611	SCREW MACHINE	WAS 3X6 MFZN	M721 + INVERTER PCB
M721B	7008300611	SCREW MACHINE	WAS 3X6 MFZN	M721+MAIN PCB
M721C	7008300611	SCREW MACHINE	WAS 3X6 MFZN	M721+M381
M721D	7178301212	SCREW TAPPTITE	TT2 WAS 3X12 MFZN BK	M721+M201
M731	4857300100	SHIELDRON	88X13X10(T)	
M732	4857304001	SHIELDRON	13X40X6.0(T) PLATE INLET FILTER	
M791	4857942200	SPONGE SPK	POLYETHER POLYURETHANE FOAM 1712	
PA11	4859001960	CABLE LVDS AS	12507HS-20+15D3SHS=140	
PA11A	2TA00650SV	TAPE ALUMINUM	T0.06X50 3M(AL35) SILVER	
PAV11	4850K01900	CORE FERRITE	BNF-1730	
PV601	4850K01900	CORE FERRITE	BNF-1730	
PWC1	4859910110	CORD POWER AS	EU KKP-419C KKS-15A 1.8M	
V901	485LD02174	LCD PANEL	LC171W03-A4K6	
V902	4850M011NV	MODULE INVERTER	DS-1017WDL	
ZZ200	PTFMSJA941	MASK FRONT AS	DLP-1712LHS	
M201	4852089610	MASK FRONT	FR PPE+PS GY	
M561	4855624700	MARK BRAND	PANA LCD 17INCH	
ZZ210	PTSPWA941	SPEAKER AS	DLP-1712LHS	
P601A	4850704S55	CONNECTOR	YH025-04+YRT205+YRT110+ULW=600+600	
SP01	4858316910	SPEAKER	SP-5090F20	
SP01A	7178301011	SCREW TAPPTITE	TT2 WAS 3X10 MFZN	

LOC	PART CODE	PART NAME	DESCRIPTION	REMARK
SP01B	7178301011	SCREW TAPPTITE	TT2 WAS 3X10 MFZN	
ZZ290	PTMPMSA941	PCB MAIN MANUAL AS	DLP-1712LHS	
F001	5FWPS1022L	FUSE	WIDE TL 250V 1A CASE	
F002	5FWPS1022L	FUSE	WIDE TL 250V 1A CASE	
IC12	1TSOP34838	IC PREAMP	TSOP34838SJ	
IC29	149XFPYCP	IC TV PROCESSORS	VCT49XYF-PY-C7	
IC3	1TDA1517PP	IC	TDA1517P	
IC30	1TDA1517PP	IC	TDA1517P	
IC31	124LC16B1B	IC MEMORY	24LC16B1B	
J2	4859295420	CONN WAFER	4602-04MV2-1 PLUG 4P ST	
J2A	4859295620	CONN WAFER	4602-2FV2-1 JUMPER 2P 2.54	
J2B	4859295620	CONN WAFER	4602-2FV2-1 JUMPER 2P 2.54	
J3	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP11	4859112950	JACK SCART	DSSM-0378 STR	
JP2	4859101310	JACK DC	DC-037	
JP4	4859102130	JACK EARPHONE	YSC-1537	
JP5	4859105340	JACK S-VHS	YKF51-5359	
JP8	4859106750	JACK PIN BOARD	YSC03P-4120-11S2	
L11	58C0000116	COIL BEAD	HC-3550R	
L46	58C0000116	COIL BEAD	HC-3550R	
L81	58C0000116	COIL BEAD	HC-3550R	
LED1	DH1L25RS—	LED (RED)	HL-25RS	
M722	4857252900	SHIELD COVER	SPTH-C T=0.3	
P12	4859236120	CONN WAFER	YAW025-04	
P13	4859231620	CONN WAFER	YW025-03	
P4	485923172S	CONN WAFER	YW025-04 (STICK)	
PA10	4850706S29	CONNECTOR	12505HS-06+12505HS-06+ULW=200	
PA14	4850704SS4	CONNECTOR	12505HS-04+12505HS-04+ULW=200	
PA3	4850712S01	CONNECTOR	12505HS-12+12505HS-12+ULW=100	
PA6	4850714S01	CONNECTOR	12505HS-14+12505HS-14+ULW=180	
PA9	4850705S17	CONNECTOR	12505HS-05+12505HS-05+ULW=300	
S3	5PX6966D—	FILTER SAW	X6966D	
SW1	5S50101Z90	SW TACT	THVV502GDA	
SW2	5S50101Z90	SW TACT	THVV502GDA	
SW3	5S50101Z90	SW TACT	THVV502GDA	
SW4	5S50101Z90	SW TACT	THVV502GDA	
SW5	5S40101009	SW PUSH	PS-22E06	
SW6	5S50101Z90	SW TACT	THVV502GDA	
TU1	4859725730	TUNER VARACTOR	PATBF19D (PAL)	
TU2	4850A23840	ANT SHIELD BOX	PAXB01DA (PAL)	
X1	5XJ20R25AE	CRYSTAL QUARTZ	HC-49/S 20.2500MHZ 16PF 30PPM	
X4	5XJ14R31AE	CRYSTAL QUARTZ	HC-49/S 14.31818MHZ 30PPM	
X5	5XJ27R00AC	CRYSTAL QUARTZ	HC-49/S 27.000MHZ 15PF 20PPM	
ZZ200	PTMPJ2A941	PCB MAIN CHIP MOUNT B AS	DLP-1712LHS	
C103	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
C104	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
C109	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
C11	HCQK120JBA	C CHIP CERA	50V CH 12PF J 1608	
C110	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
C111	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
C112	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
C113	HCBK152KBA	C CHIP CERA	50V X7R 1500PF K 1608	
C117	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
C118	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
C12	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
C120	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
C121	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
C122	HCBK152KBA	C CHIP CERA	50V X7R 1500PF K 1608	
C123	HCBK821KBA	C CHIP CERA	50V X7R 820PF K 1608	
C126	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
C127	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
C128	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
C129	HCBK821KBA	C CHIP CERA	50V X7R 820PF K 1608	
C13	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
C130	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
C131	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
C134	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
C139	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	

Service Part List

LOC	PART CODE	PART NAME	DESCRIPTION	REMARK
C76	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
C77	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
C79	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
C80	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
C81	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
C82	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
C85	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
C86	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
C87	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
C88	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
C89	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
C90	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
C97	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
D1	DZ02W6R2VA	DIODE CHIP ZENER	Z02W6.2V	
D13	DZ02W5R6VA	DIODE CHIP ZENER	Z02W5.6V	
D14	DZ02W5R6VA	DIODE CHIP ZENER	Z02W5.6V	
D17	DBAV70—B	DIODE CHIP	BAV70	
D2	DBAV70—B	DIODE CHIP	BAV70	
D21	DZ02W5R6VA	DIODE CHIP ZENER	Z02W5.6V	
D22	DZ02W5R6VA	DIODE CHIP ZENER	Z02W5.6V	
D23	DZ02W5R6VA	DIODE CHIP ZENER	Z02W5.6V	
D3	DZ02W6R2VA	DIODE CHIP ZENER	Z02W6.2V	
D32	DZ02W5R6VA	DIODE CHIP ZENER	Z02W5.6V	
D33	DZ02W5R6VA	DIODE CHIP ZENER	Z02W5.6V	
D38	DZ02W5R6VA	DIODE CHIP ZENER	Z02W5.6V	
D39	DZ02W5R6VA	DIODE CHIP ZENER	Z02W5.6V	
D40	DZ02W5R6VA	DIODE CHIP ZENER	Z02W5.6V	
D41	DZ02W5R6VA	DIODE CHIP ZENER	Z02W5.6V	
D42	DZ02W5R6VA	DIODE CHIP ZENER	Z02W5.6V	
D43	DZ02W5R6VA	DIODE CHIP ZENER	Z02W5.6V	
D45	DZ02W5R6VA	DIODE CHIP ZENER	Z02W5.6V	
R1	HRFT153JBA	R CHIP	1/10 1.5M OHM J 1608	
R10	HRFT202JBA	R CHIP	1/10 2K OHM J 1608	
R100	HRFT750JBA	R CHIP	1/10 75 OHM J 1608	
R101	HRFT333JBA	R CHIP	1/10 33K OHM J 1608	
R102	HRFT223JBA	R CHIP	1/10 22K OHM J 1608	
R107	HRFT750JBA	R CHIP	1/10 75 OHM J 1608	
R110	HRFT332JBA	R CHIP	1/10 3.3K OHM J 1608	
R112	HRFT470JBA	R CHIP	1/10 47 OHM J 1608	
R121	HRFT241JBA	R CHIP	1/10 240 OHM J 1608	
R122	HRFT241JBA	R CHIP	1/10 240 OHM J 1608	
R123	HRFT103JBA	R CHIP	1/10 10K OHM J 1608	
R128	HRFT123JBA	R CHIP	1/10 12K OHM J 1608	
R130	HRFT242JBA	R CHIP	1/10 2.4K OHM J 1608	
R131	HRFT431JBA	R CHIP	1/10 430 OHM J 1608	
R132	HRFT302JBA	R CHIP	1/10 3K OHM J 1608	
R14	HRFT472JBA	R CHIP	1/10 4.7K OHM J 1608	
R140	HRFT122JBA	R CHIP	1/10 1.2K OHM J 1608	
R141	HRFT122JBA	R CHIP	1/10 1.2K OHM J 1608	
R153	HRFT000-BA	R CHIP	1/10 0 OHM 1608	
R156	HRFT103JBA	R CHIP	1/10 10K OHM J 1608	
R18	HRFT332JBA	R CHIP	1/10 3.3K OHM J 1608	
R185	HRFT106JBA	R CHIP	1/10 10M OHM J 1608	
R186	HRFT000-BA	R CHIP	1/10 0 OHM 1608	
R189	HRFT103JBA	R CHIP	1/10 10K OHM J 1608	
R196	HRFT102JBA	R CHIP	1/10 1K OHM J 1608	
R203	HRFT000-BA	R CHIP	1/10 0 OHM 1608	
R204	HRFT750JBA	R CHIP	1/10 75 OHM J 1608	
R205	HRFT750JBA	R CHIP	1/10 75 OHM J 1608	
R206	HRFT750JBA	R CHIP	1/10 75 OHM J 1608	
R21	HRFT332JBA	R CHIP	1/10 3.3K OHM J 1608	
R210	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	
R211	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	
R212	HRFT000-BA	R CHIP	1/10 0 OHM 1608	
R229	HRFT512JBA	R CHIP	1/10 5.1K OHM J 1608	
R230	HRFT682JBA	R CHIP	1/10 6.8K OHM J 1608	
R234	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	
R235	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	

LOC	PART CODE	PART NAME	DESCRIPTION	REMARK
R236	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	
R237	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	
R238	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	
R239	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	
R24	HRFT241JBA	R CHIP	1/10 240 OHM J 1608	
R243	HRFT000-BA	R CHIP	1/10 0 OHM 1608	
R244	HRFT000-BA	R CHIP	1/10 0 OHM 1608	
R245	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	
R246	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	
R247	HRFT152JBA	R CHIP	1/10 1.5K OHM J 1608	
R248	HRFT152JBA	R CHIP	1/10 1.5K OHM J 1608	
R249	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	
R25	HRFT102JBA	R CHIP	1/10 1K OHM J 1608	
R250	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	
R254	HRFT000-BA	R CHIP	1/10 0 OHM 1608	
R257	HRFT102JBA	R CHIP	1/10 1K OHM J 1608	
R258	HRFT000-BA	R CHIP	1/10 0 OHM 1608	
R259	HRFT000-BA	R CHIP	1/10 0 OHM 1608	
R261	HRFT472JBA	R CHIP	1/10 4.7K OHM J 1608	
R262	HRFT562JBA	R CHIP	1/10 5.6K OHM J 1608	
R263	HRFT562JBA	R CHIP	1/10 5.6K OHM J 1608	
R264	HRFT472JBA	R CHIP	1/10 4.7K OHM J 1608	
R27	HRFT332JBA	R CHIP	1/10 3.3K OHM J 1608	
R272	HRFT103JBA	R CHIP	1/10 10K OHM J 1608	
R273	HRFT000-BA	R CHIP	1/10 0 OHM 1608	
R277	HRFT102JBA	R CHIP	1/10 1K OHM J 1608	
R284	HRFT473JBA	R CHIP	1/10 47K OHM J 1608	
R285	HRFT473JBA	R CHIP	1/10 47K OHM J 1608	
R288	HRFT473JBA	R CHIP	1/10 47K OHM J 1608	
R289	HRFT473JBA	R CHIP	1/10 47K OHM J 1608	
R29	HRFT241JBA	R CHIP	1/10 240 OHM J 1608	
R291	HRFT102JBA	R CHIP	1/10 1K OHM J 1608	
R292	HRFT000-BA	R CHIP	1/10 0 OHM 1608	
R293	HRFT103JBA	R CHIP	1/10 10K OHM J 1608	
R298	HRFT332JBA	R CHIP	1/10 3.3K OHM J 1608	
R30	HRFT202JBA	R CHIP	1/10 2K OHM J 1608	
R304	HRFT224JBA	R CHIP	1/10 220K OHM J 1608	
R305	HRFT224JBA	R CHIP	1/10 220K OHM J 1608	
R31	HRFT332JBA	R CHIP	1/10 3.3K OHM J 1608	
R314	HRFT332JBA	R CHIP	1/10 3.3K OHM J 1608	
R315	HRFT332JBA	R CHIP	1/10 3.3K OHM J 1608	
R316	HRFT332JBA	R CHIP	1/10 3.3K OHM J 1608	
R317	HRFT332JBA	R CHIP	1/10 3.3K OHM J 1608	
R318	HRFT332JBA	R CHIP	1/10 3.3K OHM J 1608	
R32	HRFT202JBA	R CHIP	1/10 2K OHM J 1608	
R33	HRFT241JBA	R CHIP	1/10 240 OHM J 1608	
R333	HRFT622JBA	R CHIP	1/10 6.2K OHM J 1608	
R34	HRFT393JBA	R CHIP	1/10 39K OHM J 1608	
R37	HRFT122JBA	R CHIP	1/10 1.2K OHM J 1608	
R39	HRFT750JBA	R CHIP	1/10 75 OHM J 1608	
R4	HRFT332JBA	R CHIP	1/10 3.3K OHM J 1608	
R40	HRFT332JBA	R CHIP	1/10 3.3K OHM J 1608	
R54	HRFT000-BA	R CHIP	1/10 0 OHM 1608	
R59	HRFT472JBA	R CHIP	1/10 4.7K OHM J 1608	
R60	HRFT392JBA	R CHIP	1/10 3.9K OHM J 1608	
R61	HRFT332JBA	R CHIP	1/10 3.3K OHM J 1608	
R63	HRFT000-BA	R CHIP	1/10 0 OHM 1608	
R65	HRFT102JBA	R CHIP	1/10 1K OHM J 1608	
R71	HRFT153JBA	R CHIP	1/10 15K OHM J 1608	
R72	HRFT332JBA	R CHIP	1/10 3.3K OHM J 1608	
R78	HRFT470JBA	R CHIP	1/10 47 OHM J 1608	
R79	HRFT102JBA	R CHIP	1/10 1K OHM J 1608	
R80	HRFT750JBA	R CHIP	1/10 75 OHM J 1608	
R82	HRFT750JBA	R CHIP	1/10 75 OHM J 1608	
R83	HRFT750JBA	R CHIP	1/10 75 OHM J 1608	
R88	HRFT332JBA	R CHIP	1/10 3.3K OHM J 1608	
R90	HRFT750JBA	R CHIP	1/10 75 OHM J 1608	
R94	HRFT123JBA	R CHIP	1/10 12K OHM J 1608	

Service Part List

LOC	PART CODE	PART NAME	DESCRIPTION	REMARK
R96	HRFT750JBA	R CHIP	1/10 75 OHM J 1608	
ZZ200	PTMPJ0A941	PCB MAIN (RHU) AS	DLP-1712LHS	
ZZ200	PTMPJBA941	PCB MAIN M-10 AS	DLP-1712LHS	
ZZ200	PTMPJRA941	PCB MAIN RADIAL AS	DLP-1712LHS	
ZZ200	PTMPJAA941	PCB MAIN AXIAL AS	DLP-1712LHS	
A001	4859810793	PCB MAIN	270X234 G4V	
ZZ200	PTMPJ1A941	PCB MAIN CHIP MOUNT A AS	DLP-1712LHS	
C1	HCELF471MD	C CHIP ELECTRO	25V 470MF CM 1010	
C10	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
C100	HCELF471MD	C CHIP ELECTRO	25V 470MF CM 1010	
C102	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
C105	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
C108	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
C114	HCELF100MC	C CHIP ELECTRO	25V 10MF CM 4052	
C115	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
C116	HCELF220MC	C CHIP ELECTRO	MV 16V 22MF 5.0DX5.2H	
C119	HCELFH101MD	C CHIP ELECTRO	25V 100MF CM 8063	
C124	HCELF221ME	C CHIP ELECTRO	25V 220MF CM 8010	
C125	HCELC102ME	C CHIP ELECTRO	6.3V 1000MF CM 8010	
C132	HCELF220MC	C CHIP ELECTRO	50V 22MF CM 6353	
C133	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
C138	HCELF479MC	C CHIP ELECTRO	50V 4.7MF CM 4052	
C140	HCELF479MC	C CHIP ELECTRO	50V 4.7MF CM 4052	
C141	HCELF220MC	C CHIP ELECTRO	MV 16V 22MF 5.0DX5.2H	
C145	HCELFH101MD	C CHIP ELECTRO	25V 100MF CM 8063	
C146	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608	
C15	HCELF471ME	C CHIP ELECTRO	16V 470MF CM 8010	
C155	HCELC102ME	C CHIP ELECTRO	6.3V 1000MF CM 8010	
C156	HCELC102ME	C CHIP ELECTRO	6.3V 1000MF CM 8010	
C16	HCELFH100MC	C CHIP ELECTRO	25V 10MF CM 4052	
C164	HCQK221JBA	C CHIP CERA	50V CH 220PF J 1608	
C168	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608	
C170	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
C173	HCELF470MC	C CHIP ELECTRO	16V 47MF CM 5053	
C178	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
C179	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
C18	HCELFH100MC	C CHIP ELECTRO	25V 10MF CM 4052	
C180	HCBK102KBA	C CHIP CERA	50V X7R 1000PF K 1608	
C181	HCBK102KBA	C CHIP CERA	50V X7R 1000PF K 1608	
C182	HCELF220MC	C CHIP ELECTRO	MV 16V 22MF 5.0DX5.2H	
C184	HCELF220MC	C CHIP ELECTRO	MV 16V 22MF 5.0DX5.2H	
C186	HCQK221JBA	C CHIP CERA	50V CH 220PF J 1608	
C187	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
C188	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
C203	HCELF479MC	C CHIP ELECTRO	50V 4.7MF CM 4052	
C204	HCELF471MD	C CHIP ELECTRO	25V 470MF CM 1010	
C206	HCELFH101MD	C CHIP ELECTRO	25V 100MF CM 8063	
C209	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
C21	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
C212	HCELFH101MD	C CHIP ELECTRO	25V 100MF CM 8063	
C213	HCELF471ME	C CHIP ELECTRO	16V 470MF CM 8010	
C214	HCELF470MC	C CHIP ELECTRO	16V 47MF CM 5053	
C216	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
C217	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
C219	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
C22	HCELC102ME	C CHIP ELECTRO	6.3V 1000MF CM 8010	
C220	HCELF220MC	C CHIP ELECTRO	MV 16V 22MF 5.0DX5.2H	
C226	HCBK102KBA	C CHIP CERA	50V X7R 1000PF K 1608	
C227	HCBK102KBA	C CHIP CERA	50V X7R 1000PF K 1608	
C23	HCELC102ME	C CHIP ELECTRO	6.3V 1000MF CM 8010	
C231	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
C239	HCELF220MC	C CHIP ELECTRO	MV 16V 22MF 5.0DX5.2H	
C25	HCELF220MC	C CHIP ELECTRO	MV 16V 22MF 5.0DX5.2H	
C250	HCELF220MC	C CHIP ELECTRO	MV 16V 22MF 5.0DX5.2H	
C253	HCELFH101MD	C CHIP ELECTRO	25V 100MF CM 8063	
C256	HCELFH101MD	C CHIP ELECTRO	25V 100MF CM 8063	
C260	HCELF470MC	C CHIP ELECTRO	16V 47MF CM 5053	
C261	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	

LOC	PART CODE	PART NAME	DESCRIPTION	REMARK
C267	HCELF220MC	C CHIP ELECTRO	MV 16V 22MF 5.0DX5.2H	
C273	HCELF220MC	C CHIP ELECTRO	MV 16V 22MF 5.0DX5.2H	
C275	HCELC102ME	C CHIP ELECTRO	6.3V 1000MF CM 8010	
C281	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
C282	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
C283	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
C287	HCELF470MC	C CHIP ELECTRO	16V 47MF CM 5053	
C288	HCELF220MC	C CHIP ELECTRO	MV 16V 22MF 5.0DX5.2H	
C289	HCELFH100MC	C CHIP ELECTRO	25V 10MF CM 4052	
C29	HCELFH101MD	C CHIP ELECTRO	25V 100MF CM 8063	
C291	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
C294	HCELF220MC	C CHIP ELECTRO	MV 16V 22MF 5.0DX5.2H	
C298	HCELF221ME	C CHIP ELECTRO	25V 220MF CM 8010	
C299	HCELF221ME	C CHIP ELECTRO	25V 220MF CM 8010	
C3	HCELFH100MC	C CHIP ELECTRO	25V 10MF CM 4052	
C30	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
C300	HCELF471ME	C CHIP ELECTRO	16V 470MF CM 8010	
C301	HCELF471ME	C CHIP ELECTRO	16V 470MF CM 8010	
C303	HCELFH100MC	C CHIP ELECTRO	25V 10MF CM 4052	
C304	HCELFH100MC	C CHIP ELECTRO	25V 10MF CM 4052	
C305	HCELFH100MC	C CHIP ELECTRO	25V 10MF CM 4052	
C306	HCELFH100MC	C CHIP ELECTRO	25V 10MF CM 4052	
C307	HCELFH100MC	C CHIP ELECTRO	25V 10MF CM 4052	
C309	HCELFH100MC	C CHIP ELECTRO	25V 10MF CM 4052	
C314	HCELF479MC	C CHIP ELECTRO	50V 4.7MF CM 4052	
C315	HCELFH101MD	C CHIP ELECTRO	25V 100MF CM 8063	
C316	HCELFH101MD	C CHIP ELECTRO	25V 100MF CM 8063	
C317	HCELF220MC	C CHIP ELECTRO	MV 16V 22MF 5.0DX5.2H	
C319	HCELF220MC	C CHIP ELECTRO	MV 16V 22MF 5.0DX5.2H	
C320	HCELFH101MD	C CHIP ELECTRO	25V 100MF CM 8063	
C321	HCELF220MC	C CHIP ELECTRO	MV 16V 22MF 5.0DX5.2H	
C322	HCELFH101MD	C CHIP ELECTRO	25V 100MF CM 8063	
C323	HCELF220MC	C CHIP ELECTRO	MV 16V 22MF 5.0DX5.2H	
C331	HCELFH100MC	C CHIP ELECTRO	25V 10MF CM 4052	
C332	HCELF470MC	C CHIP ELECTRO	16V 47MF CM 5053	
C335	HCELF471ME	C CHIP ELECTRO	16V 470MF CM 8010	
C336	HCELF220MC	C CHIP ELECTRO	MV 16V 22MF 5.0DX5.2H	
C337	HCELFH101MD	C CHIP ELECTRO	25V 100MF CM 8063	
C338	HCELC102ME	C CHIP ELECTRO	6.3V 1000MF CM 8010	
C339	HCELF220MC	C CHIP ELECTRO	50V 22MF CM 6353	
C349	HCELF470MC	C CHIP ELECTRO	16V 47MF CM 5053	
C353	HCELFH100MC	C CHIP ELECTRO	25V 10MF CM 4052	
C356	HCELFH100MC	C CHIP ELECTRO	25V 10MF CM 4052	
C36	HCELF221ME	C CHIP ELECTRO	25V 220MF CM 8010	
C37	HCBK473KBA	C CHIP CERA	50V X7R 0.047MF K 1608	
C38	HCBK473KBA	C CHIP CERA	50V X7R 0.047MF K 1608	
C39	HCQK331JBA	C CHIP CERA	50V CH 330PF J 1608	
C4	HCELFH100MC	C CHIP ELECTRO	25V 10MF CM 4052	
C40	HCQK331JBA	C CHIP CERA	50V CH 330PF J 1608	
C41	HCELFH101MD	C CHIP ELECTRO	25V 100MF CM 8063	
C48	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
C5	HCELF471MD	C CHIP ELECTRO	25V 470MF CM 1010	
C51	HCELFH100MC	C CHIP ELECTRO	25V 10MF CM 4052	
C52	HCELF221ME	C CHIP ELECTRO	25V 220MF CM 8010	
C61	HCQK221JBA	C CHIP CERA	50V CH 220PF J 1608	
C65	HCBK102KBA	C CHIP CERA	50V X7R 1000PF K 1608	
C66	HCBK473KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
C68	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
C69	HCELFH100MC	C CHIP ELECTRO	25V 10MF CM 4052	
C71	HCELC102ME	C CHIP ELECTRO	6.3V 1000MF CM 8010	
C78	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
C83	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
C84	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
C9	HCELFH100MC	C CHIP ELECTRO	25V 10MF CM 4052	
C92	HCELF471ME	C CHIP ELECTRO	16V 470MF CM 8010	
C93	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
C94	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
C95	HCELF479MC	C CHIP ELECTRO	50V 4.7MF CM 4052	

Service Part List

LOC	PART CODE	PART NAME	DESCRIPTION	REMARK
C96	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
C98	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
C99	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
D10	DZ02W5R6VA	DIODE CHIP ZENER	Z02W5.6V	
D15	DM2FM3—C	DIODE CHIP SCHOTTKY	M2FM3 M2F TYPE	
D16	DBAV99L—B	DIODE CHIP	BAV99L	
D24	DZ02W5R6VA	DIODE CHIP ZENER	Z02W5.6V	
D25	DBAV99L—B	DIODE CHIP	BAV99L	
D26	DZ02W5R6VA	DIODE CHIP ZENER	Z02W5.6V	
D27	DZ02W5R6VA	DIODE CHIP ZENER	Z02W5.6V	
D28	DZ02W5R6VA	DIODE CHIP ZENER	Z02W5.6V	
D29	DZ02W5R6VA	DIODE CHIP ZENER	Z02W5.6V	
D30	DZ02W5R6VA	DIODE CHIP ZENER	Z02W5.6V	
D31	DZ02W5R6VA	DIODE CHIP ZENER	Z02W5.6V	
D34	DBAV99L—B	DIODE CHIP	BAV99L	
D50	DM2FM3—C	DIODE CHIP SCHOTTKY	M2FM3 M2F TYPE	
IC1	1A1117E33D	IC CHIP REGULATOR	AP1117E33A 3.3V 2% SOT-223	
IC10	1A1117E33D	IC CHIP REGULATOR	AP1117E33A 3.3V 2% SOT-223	
IC11	1VF800A70Q	IC CHIP FLASH	SST39VF800A-70 4C-EK TRAY	
IC13	1PW11310QQ	IC CHIP IMAGE PROCESSOR	PW113-10Q	
IC14	1S18033SDE	IC CHIP SW REG	SI-8033SD 3.0A 3.3V 60KHZ 5PIN	
IC15	1A1117E18D	IC CHIP REGULATOR	AP1117E18A 1.8V 2% SOT-223	
IC16	19883C110Q	IC CHIP ADC	MST9883CR-110 MSPS	
IC17	1ELLV385-E	IC CHIP	EL-LV385	
IC18	1LM317BD2E	IC CHIP REGULATOR	LM317BD2T ADJ 1.2V 37V 1.5A D2PAK	
IC19	1A1117EA-D	IC CHIP REGULATOR	AP1117EA ADJ 2% SOT-223	
IC2	1CD74HC52D	IC CHIP LOGIC	CD74HC4052M SOIC 16 REEL	
IC20	1S18050SDE	IC CHIP SW REG	SI-8050SD 3.0A 5.0V 60KHZ 5PIN	
IC21	1A1117E18D	IC CHIP REGULATOR	AP1117E18A 1.8V 2% SOT-223	
IC22	1MD1N150-Q	IC CHIP HD DEINTERLACER	MDIN-150	
IC23	12S32200BQ	IC CHIP	IS42S32200B-6T	
IC24	1LM317BD2E	IC CHIP REGULATOR	LM317BD2T ADJ 1.2V 37V 1.5A D2PAK	
IC25	1LM317BD2E	IC CHIP REGULATOR	LM317BD2T ADJ 1.2V 37V 1.5A D2PAK	
IC26	1CXA1315MD	IC CHIP D/A	CXA1315M	
IC27	1LM317BD2E	IC CHIP REGULATOR	LM317BD2T ADJ 1.2V 37V 1.5A D2PAK	
IC33	1CD74HC52D	IC CHIP LOGIC	CD74HC4052M SOIC 16 REEL	
IC34	1P15V330-D	IC CHIP VIDEO SWITCH	PI5V330	
IC35	1BA6161F-C	IC CHIP SW REG	BA6161F 30-35V 100KHZ SOP8 REEL	
IC38	124LC168TC	IC CHIP EEPROM	24LC168T-I/SN 16K 8 PIN SOIC REEL	
IC39	TFDS4953-C	FET CHIP	FDS4953 SO-8 -30V -5A REEL	
IC4	1K1A358F-C	IC CHIP OP AMP	KIA358F DUAL OP AMP FLP-8	
IC40	1V273APWRD	IC CHIP LOGIC	SN74LV273APWR	
IC5	1P15V330-D	IC CHIP VIDEO SWITCH	PI5V330	
IC6	1A1117E33D	IC CHIP REGULATOR	AP1117E33A 3.3V 2% SOT-223	
IC7	1K1A7027TB	IC CHIP RESET	KIA7027AT 2.7V TSM TYPE	
IC8	TFDS4953-C	FET CHIP	FDS4953 SO-8 -30V -5A REEL	
IC9	1P15V330-D	IC CHIP VIDEO SWITCH	PI5V330	
L1	HLC569K00A	L CHIP COIL	5.6UH MLF2012E	
L10	HLC100K02A	L CHIP COIL	10UH MLF 2012	
L14	HFMMZ400A	F CHIP FERRITE BEAD	40 OHM MMZ 2012S	
L15	HLC472M01D	L CHIP COIL	4.7MH M SLF7045	
L16	HLC569K00A	L CHIP COIL	5.6UH MLF2012E	
L17	HLC569K00A	L CHIP COIL	5.6UH MLF2012E	
L18	HLC339M00B	L CHIP COIL	3.3UH M NLCV25T-PF	
L19	HFMMZ400A	F CHIP FERRITE BEAD	40 OHM MMZ 2012S	
L2	HLC101K01C	L CHIP COIL	100UH K NLC5650T	
L22	HLC569K00A	L CHIP COIL	5.6UH MLF2012E	
L23	HLC569K00A	L CHIP COIL	5.6UH MLF2012E	
L24	HLC100K02A	L CHIP COIL	10UH MLF 2012	
L25	HLC569K00A	L CHIP COIL	5.6UH MLF2012E	
L26	HLC479J00A	L CHIP COIL	4.7UH MLF2012	
L27	HLC151K01E	L CHIP COIL	150UH K 120120	
L28	HLC100K02A	L CHIP COIL	10UH MLF 2012	
L3	HLC100K03B	L CHIP COIL	10UH K NLCV25T-PF	
L30	HLC100K03B	L CHIP COIL	10UH K NLCV25T-PF	
L31	HLC479J00A	L CHIP COIL	4.7UH MLF2012	
L32	HLC189K00A	L CHIP COIL	1.8UH K MLF 2012	
L33	HLC100K03B	L CHIP COIL	10UH K NLCV25T-PF	

LOC	PART CODE	PART NAME	DESCRIPTION	REMARK
L36	HFMMZ400A	F CHIP FERRITE BEAD	40 OHM MMZ 2012S	
L37	HFMMZ400A	F CHIP FERRITE BEAD	40 OHM MMZ 2012S	
L38	HFMMZ400A	F CHIP FERRITE BEAD	40 OHM MMZ 2012S	
L39	HFMMZ400A	F CHIP FERRITE BEAD	40 OHM MMZ 2012S	
L4	HLC339M00B	L CHIP COIL	3.3UH M NLCV25T-PF	
L40	HFMMZ400A	F CHIP FERRITE BEAD	40 OHM MMZ 2012S	
L41	HFMMZ400A	F CHIP FERRITE BEAD	40 OHM MMZ 2012S	
L45	HLC569K00A	L CHIP COIL	5.6UH MLF2012E	
L47	HFMMZ400A	F CHIP FERRITE BEAD	40 OHM MMZ 2012S	
L49	HFMMZ400A	F CHIP FERRITE BEAD	40 OHM MMZ 2012S	
L5	HFMMZ400A	F CHIP FERRITE BEAD	40 OHM MMZ 2012S	
L50	HFMMZ301A	F CHIP FERRITE BEAD	300 OHM MMZ 2012Y	
L51	HFMMZ301A	F CHIP FERRITE BEAD	300 OHM MMZ 2012Y	
L52	HFMMZ301A	F CHIP FERRITE BEAD	300 OHM MMZ 2012Y	
L53	HFMMZ301A	F CHIP FERRITE BEAD	300 OHM MMZ 2012Y	
L54	HLC151K01E	L CHIP COIL	150UH K 120120	
L55	HFMMZ400A	F CHIP FERRITE BEAD	40 OHM MMZ 2012S	
L56	HFEACF470B	F CHIP EMI	ACF321825 47P	
L57	HFEACF470B	F CHIP EMI	ACF321825 47P	
L58	HFEACF470B	F CHIP EMI	ACF321825 47P	
L6	HFMMZ400A	F CHIP FERRITE BEAD	40 OHM MMZ 2012S	
L61	HFEACF470B	F CHIP EMI	ACF321825 47P	
L62	HFEACF470B	F CHIP EMI	ACF321825 47P	
L63	HFZACF471C	F CHIP LC	ACF321825-471	
L64	HFZACF471C	F CHIP LC	ACF321825-471	
L65	HFMMZ400A	F CHIP FERRITE BEAD	40 OHM MMZ 2012S	
L66	HFMMZ400A	F CHIP FERRITE BEAD	40 OHM MMZ 2012S	
L67	HFMMZ400A	F CHIP FERRITE BEAD	40 OHM MMZ 2012S	
L7	HFEACF470B	F CHIP EMI	ACF321825 47P	
L71	HLC479K03C	L CHIP COIL	4.7UH K NLC5650T	
L72	HLC189K00A	L CHIP COIL	1.8UH K MLF 2012	
L73	HLC100K03B	L CHIP COIL	10UH K NLCV25T-PF	
L74	HLC479K03C	L CHIP COIL	4.7UH K NLC5650T	
L75	HFMMZ400A	F CHIP FERRITE BEAD	40 OHM MMZ 2012S	
L76	HFMMZ400A	F CHIP FERRITE BEAD	40 OHM MMZ 2012S	
L77	HLC479M02D	L CHIP COIL	4.7UH M SLF0628	
L82	HLB300M04A	L CHIP BEAD	30 OHM MPZ 2012	
L83	HLB300M04A	L CHIP BEAD	30 OHM MPZ 2012	
L9	HFMMZ202A	F CHIP FERRITE BEAD	2000 OHM MMZ 2012Y	
LP1	HFRMZA600A	F CHIP BEAD ARRAY	60 OHM MZA 3216Y	
LP2	HFRMZA600A	F CHIP BEAD ARRAY	60 OHM MZA 3216Y	
LP3	HFRMZA600A	F CHIP BEAD ARRAY	60 OHM MZA 3216Y	
LP4	HFRMZA600A	F CHIP BEAD ARRAY	60 OHM MZA 3216Y	
LP5	HFRMZA600A	F CHIP BEAD ARRAY	60 OHM MZA 3216Y	
LP6	HFRMZA600A	F CHIP BEAD ARRAY	60 OHM MZA 3216Y	
P10	49590001S0	CONN WAFER	12505WR-06A00	
P10A	49590001S0	CONN WAFER	12505WR-06A00	
P11	4859294220	CONN WAFER	12507WR-20(SMD)	
P11A	4859296720	CONN WAFER	12505WR-04A00	
P14	4859296720	CONN WAFER	12505WR-04A00	
P3	49590004S0	CONN WAFER	12505WR-12(SMD)	
P6	4859294420	CONN WAFER	12505WR-14(SMD)	
P6A	4859294420	CONN WAFER	12505WR-14(SMD)	
P9	49590009S0	CONN WAFER	12505WR-05A00	
P9A	49590009S0	CONN WAFER	12505WR-05A00	
Q1	T2N7002M-B	FET CHIP	2N7002MTF SOT-23 60V 0.2A	
Q10	T2SA1037KB	TR CHIP	2SA1037AKT146-R	
Q11	T2SC2412KB	TR CHIP	2SC2412K-T146-BR	
Q12	T2SC2412KB	TR CHIP	2SC2412K-T146-BR	
Q14	T2SC2412KB	TR CHIP	2SC2412K-T146-BR	
Q15	T2SC2412KB	TR CHIP	2SC2412K-T146-BR	
Q16	T2SC2412KB	TR CHIP	2SC2412K-T146-BR	
Q17	T2SC2412KB	TR CHIP	2SC2412K-T146-BR	
Q18	T2SC2412KB	TR CHIP	2SC2412K-T146-BR	
Q2	T2N7002M-B	FET CHIP	2N7002MTF SOT-23 60V 0.2A	
Q21	T2SC2412KB	TR CHIP	2SC2412K-T146-BR	
Q23	T2SC2412KB	TR CHIP	2SC2412K-T146-BR	
Q24	T2SC2412KB	TR CHIP	2SC2412K-T146-BR	

Service Part List

LOC	PART CODE	PART NAME	DESCRIPTION	REMARK
Q25	T2SC2412KB	TR CHIP	2SC2412K-T146-BR	
Q26	T2SC2412KB	TR CHIP	2SC2412K-T146-BR	
Q27	T2SC2412KB	TR CHIP	2SC2412K-T146-BR	
Q3	T2SC2412KB	TR CHIP	2SC2412K-T146-BR	
Q31	T2SC2412KB	TR CHIP	2SC2412K-T146-BR	
Q32	T2SC2412KB	TR CHIP	2SC2412K-T146-BR	
Q33	T2SC2412KB	TR CHIP	2SC2412K-T146-BR	
Q34	T2SC2412KB	TR CHIP	2SC2412K-T146-BR	
Q35	T2SC2412KB	TR CHIP	2SC2412K-T146-BR	
Q36	T2SC2412KB	TR CHIP	2SC2412K-T146-BR	
Q37	T2SC2412KB	TR CHIP	2SC2412K-T146-BR	
Q38	T2SC2412KB	TR CHIP	2SC2412K-T146-BR	
Q39	T2SC2412KB	TR CHIP	2SC2412K-T146-BR	
Q4	T2SA1037KB	TR CHIP	2SA1037AKT146-R	
Q40	T2SC2412KB	TR CHIP	2SC2412K-T146-BR	
Q41	T2SC2412KB	TR CHIP	2SC2412K-T146-BR	
Q5	T2SC2412KB	TR CHIP	2SC2412K-T146-BR	
Q6	T2SC2412KB	TR CHIP	2SC2412K-T146-BR	
Q7	T2SC2412KB	TR CHIP	2SC2412K-T146-BR	
Q9	T2SA1037KB	TR CHIP	2SA1037AKT146-R	
R103	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	
R104	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	
R106	HRFT332JBA	R CHIP	1/10 3.3K OHM J 1608	
R11	HRFT472JBA	R CHIP	1/10 4.7K OHM J 1608	
R111	HRFT470JBA	R CHIP	1/10 47 OHM J 1608	
R114	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	
R115	HRFT332JBA	R CHIP	1/10 3.3K OHM J 1608	
R116	HRFT332JBA	R CHIP	1/10 3.3K OHM J 1608	
R117	HRFT000-BA	R CHIP	1/10 0 OHM 1608	
R118	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	
R119	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	
R12	HRFT472JBA	R CHIP	1/10 4.7K OHM J 1608	
R124	HRFT000-BA	R CHIP	1/10 0 OHM 1608	
R125	HRFT332JBA	R CHIP	1/10 3.3K OHM J 1608	
R126	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	
R127	HRFT332JBA	R CHIP	1/10 3.3K OHM J 1608	
R133	HRFT103JBA	R CHIP	1/10 10K OHM J 1608	
R134	HRFT103JBA	R CHIP	1/10 10K OHM J 1608	
R135	HRFT562JBA	R CHIP	1/10 5.6K OHM J 1608	
R143	HRFT470JBA	R CHIP	1/10 47 OHM J 1608	
R144	HRFT472JBA	R CHIP	1/10 4.7K OHM J 1608	
R145	HRFT331JBA	R CHIP	1/10 330 OHM J 1608	
R147	HRFT332JBA	R CHIP	1/10 3.3K OHM J 1608	
R149	HRFT331JBA	R CHIP	1/10 330 OHM J 1608	
R15	HRFT330JBA	R CHIP	1/10 33 OHM J 1608	
R150	HRFT103JBA	R CHIP	1/10 10K OHM J 1608	
R151	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	
R152	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	
R155	HRFT472JBA	R CHIP	1/10 4.7K OHM J 1608	
R157	HRFT331JBA	R CHIP	1/10 330 OHM J 1608	
R16	HRFT151JBA	R CHIP	1/10 150 OHM J 1608	
R160	HRFT000-BA	R CHIP	1/10 0 OHM 1608	
R161	HRFT472JBA	R CHIP	1/10 4.7K OHM J 1608	
R163	HRFT000-BA	R CHIP	1/10 0 OHM 1608	
R165	HRFT000-BA	R CHIP	1/10 0 OHM 1608	
R166	HRFT331JBA	R CHIP	1/10 330 OHM J 1608	
R168	HRFT102JBA	R CHIP	1/10 1K OHM J 1608	
R169	HRFT000-BA	R CHIP	1/10 0 OHM 1608	
R17	HRFT472JBA	R CHIP	1/10 4.7K OHM J 1608	
R170	HRFT000-BA	R CHIP	1/10 0 OHM 1608	
R171	HRFT752JBA	R CHIP	1/10 7.5K OHM J 1608	
R172	HRFT271JBA	R CHIP	1/10 270 OHM J 1608	
R173	HRFT102JBA	R CHIP	1/10 1K OHM J 1608	
R174	HRFT752JBA	R CHIP	1/10 7.5K OHM J 1608	
R175	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	
R176	HRFT332JBA	R CHIP	1/10 3.3K OHM J 1608	
R177	HRFT103JBA	R CHIP	1/10 10K OHM J 1608	
R178	HRFT332JBA	R CHIP	1/10 3.3K OHM J 1608	

LOC	PART CODE	PART NAME	DESCRIPTION	REMARK
R179	HRFT103JBA	R CHIP	1/10 10K OHM J 1608	
R180	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	
R181	HRFT103JBA	R CHIP	1/10 10K OHM J 1608	
R182	HRFT271JBA	R CHIP	1/10 270 OHM J 1608	
R183	HRFT103JBA	R CHIP	1/10 10K OHM J 1608	
R184	HRFT103JBA	R CHIP	1/10 10K OHM J 1608	
R187	HRFT271JBA	R CHIP	1/10 270 OHM J 1608	
R188	HRFT472JBA	R CHIP	1/10 4.7K OHM J 1608	
R19	HRFT272JBA	R CHIP	1/10 2.7K OHM J 1608	
R190	HRFT102JBA	R CHIP	1/10 1K OHM J 1608	
R191	HRFT331JBA	R CHIP	1/10 330 OHM J 1608	
R192	HRFT472JBA	R CHIP	1/10 4.7K OHM J 1608	
R193	HRFT000-BA	R CHIP	1/10 0 OHM 1608	
R194	HRFT472JBA	R CHIP	1/10 4.7K OHM J 1608	
R195	HRFT000-BA	R CHIP	1/10 0 OHM 1608	
R197	HRFT750JBA	R CHIP	1/10 75 OHM J 1608	
R199	HRFT000-BA	R CHIP	1/10 0 OHM 1608	
R2	HRFT000-BA	R CHIP	1/10 0 OHM 1608	
R20	HRFT102JBA	R CHIP	1/10 1K OHM J 1608	
R200	HRFT000-BA	R CHIP	1/10 0 OHM 1608	
R207	HRFT473JBA	R CHIP	1/10 47K OHM J 1608	
R208	HRFT473JBA	R CHIP	1/10 47K OHM J 1608	
R209	HRFT000-BA	R CHIP	1/10 0 OHM 1608	
R214	HRFT220JBA	R CHIP	1/10 22 OHM J 1608	
R215	HRFT102JBA	R CHIP	1/10 1K OHM J 1608	
R216	HRFT122JBA	R CHIP	1/10 1.2K OHM J 1608	
R217	HRFT220JBA	R CHIP	1/10 22 OHM J 1608	
R219	HRFT122JBA	R CHIP	1/10 1.2K OHM J 1608	
R22	HRFT102JBA	R CHIP	1/10 1K OHM J 1608	
R220	HRFT102JBA	R CHIP	1/10 1K OHM J 1608	
R224	HRFT473JBA	R CHIP	1/10 47K OHM J 1608	
R225	HRFT473JBA	R CHIP	1/10 47K OHM J 1608	
R227	HRFT103JBA	R CHIP	1/10 10K OHM J 1608	
R23	HRFT122JBA	R CHIP	1/10 1.2K OHM J 1608	
R231	HRFT201JBA	R CHIP	1/10 200 OHM J 1608	
R232	HRFT201JBA	R CHIP	1/10 200 OHM J 1608	
R233	HRFT103JBA	R CHIP	1/10 10K OHM J 1608	
R240	HRFT222JBA	R CHIP	1/10 2.2K OHM J 1608	
R255	HRFT750JBA	R CHIP	1/10 75 OHM J 1608	
R26	HRFT220JBA	R CHIP	1/10 22 OHM J 1608	
R260	HRFT332JBA	R CHIP	1/10 3.3K OHM J 1608	
R265	HRFT102JBA	R CHIP	1/10 1K OHM J 1608	
R266	HRFT220JBA	R CHIP	1/10 22 OHM J 1608	
R268	HRFT122JBA	R CHIP	1/10 1.2K OHM J 1608	
R269	HRFT102JBA	R CHIP	1/10 1K OHM J 1608	
R270	HRFT750JBA	R CHIP	1/10 75 OHM J 1608	
R271	HRFT102JBA	R CHIP	1/10 1K OHM J 1608	
R275	HRFT103JBA	R CHIP	1/10 10K OHM J 1608	
R276	HRFT103JBA	R CHIP	1/10 10K OHM J 1608	
R278	HRFT332JBA	R CHIP	1/10 3.3K OHM J 1608	
R28	HRFT332JBA	R CHIP	1/10 3.3K OHM J 1608	
R280	HRFT271JBA	R CHIP	1/10 270 OHM J 1608	
R281	HRFT103JBA	R CHIP	1/10 10K OHM J 1608	
R282	HRFT103JBA	R CHIP	1/10 10K OHM J 1608	
R290	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	
R294	HRFT123JBA	R CHIP	1/10 12K OHM J 1608	
R295	HRFT272JBA	R CHIP	1/10 2.7K OHM J 1608	
R296	HRFT682JBA	R CHIP	1/10 6.8K OHM J 1608	
R297	HRFT472JBA	R CHIP	1/10 4.7K OHM J 1608	
R299	HRFT271JBA	R CHIP	1/10 270 OHM J 1608	
R3	HRFT332JBA	R CHIP	1/10 3.3K OHM J 1608	
R300	HRFT103JBA	R CHIP	1/10 10K OHM J 1608	
R302	HRFT224JBA	R CHIP	1/10 220K OHM J 1608	
R303	HRFT224JBA	R CHIP	1/10 220K OHM J 1608	
R313	HRFT103JBA	R CHIP	1/10 10K OHM J 1608	
R319	HRFT271JBA	R CHIP	1/10 270 OHM J 1608	
R320	HRFT103JBA	R CHIP	1/10 10K OHM J 1608	
R321	HRFT332JBA	R CHIP	1/10 3.3K OHM J 1608	

Service Part List

LOC	PART CODE	PART NAME	DESCRIPTION	REMARK
R322	HRFT332JBA	R CHIP	1/10 3.3K OHM J 1608	
R323	HRFT332JBA	R CHIP	1/10 3.3K OHM J 1608	
R324	HRFT332JBA	R CHIP	1/10 3.3K OHM J 1608	
R325	HRFT332JBA	R CHIP	1/10 3.3K OHM J 1608	
R326	HRFT103JBA	R CHIP	1/10 10K OHM J 1608	
R327	HRFT271JBA	R CHIP	1/10 270 OHM J 1608	
R328	HRFT102JBA	R CHIP	1/10 1K OHM J 1608	
R329	HRFT102JBA	R CHIP	1/10 1K OHM J 1608	
R38	HRFT122JBA	R CHIP	1/10 1.2K OHM J 1608	
R43	HRFT151JBA	R CHIP	1/10 150 OHM J 1608	
R44	HRFT330JBA	R CHIP	1/10 33 OHM J 1608	
R45	HRFT103JBA	R CHIP	1/10 10K OHM J 1608	
R46	HRFT271JBA	R CHIP	1/10 270 OHM J 1608	
R47	HRFT752JBA	R CHIP	1/10 7.5K OHM J 1608	
R48	HRFT103JBA	R CHIP	1/10 10K OHM J 1608	
R50	HRFT151JBA	R CHIP	1/10 150 OHM J 1608	
R51	HRFT330JBA	R CHIP	1/10 33 OHM J 1608	
R52	HRFT271JBA	R CHIP	1/10 270 OHM J 1608	
R53	HRFT332JBA	R CHIP	1/10 3.3K OHM J 1608	
R6	HRFT000-BA	R CHIP	1/10 0 OHM 1608	
R62	HRFT470JBA	R CHIP	1/10 47 OHM J 1608	
R64	HRFT470JBA	R CHIP	1/10 47 OHM J 1608	
R66	HRFT470JBA	R CHIP	1/10 47 OHM J 1608	
R7	HRFT000JBA	R CHIP	1/10 0 OHM J 1608	
R70	HRFT332JBA	R CHIP	1/10 3.3K OHM J 1608	
R73	HRFT272JBA	R CHIP	1/10 2.7K OHM J 1608	
R74	HRFT332JBA	R CHIP	1/10 3.3K OHM J 1608	
R75	HRFT470JBA	R CHIP	1/10 47 OHM J 1608	
R76	HRFT470JBA	R CHIP	1/10 47 OHM J 1608	
R77	HRFT470JBA	R CHIP	1/10 47 OHM J 1608	
R8	HRFT102JBA	R CHIP	1/10 1K OHM J 1608	
R81	HRFT562JBA	R CHIP	1/10 5.6K OHM J 1608	
R84	HRFT391JBA	R CHIP	1/10 390 OHM J 1608	
R85	HRFT122JBA	R CHIP	1/10 1.2K OHM J 1608	
R86	HRFT332JBA	R CHIP	1/10 3.3K OHM J 1608	
R87	HRFT122JBA	R CHIP	1/10 1.2K OHM J 1608	
R9	HRFT271JBA	R CHIP	1/10 270 OHM J 1608	
R92	HRFT102JBA	R CHIP	1/10 1K OHM J 1608	
R93	HRFT752JBA	R CHIP	1/10 7.5K OHM J 1608	
R97	HRFT332JBA	R CHIP	1/10 3.3K OHM J 1608	
R98	HRFT103JBA	R CHIP	1/10 10K OHM J 1608	
R99	HRFT102JBA	R CHIP	1/10 1K OHM J 1608	
RP1	HRTS8E470J	R CHIP ARRAY	1/16 8P 47 OHM 3216	
RP17	HRTS8E470J	R CHIP ARRAY	1/16 8P 47 OHM 3216	
RP18	HRTS8E470J	R CHIP ARRAY	1/16 8P 47 OHM 3216	
RP19	HRTS8E470J	R CHIP ARRAY	1/16 8P 47 OHM 3216	
RP2	HRTS8E470J	R CHIP ARRAY	1/16 8P 47 OHM 3216	
RP20	HRTS8E470J	R CHIP ARRAY	1/16 8P 47 OHM 3216	
RP21	HRTS8E470J	R CHIP ARRAY	1/16 8P 47 OHM 3216	
RP22	HRTS8E470J	R CHIP ARRAY	1/16 8P 47 OHM 3216	
RP23	HRTS8E470J	R CHIP ARRAY	1/16 8P 47 OHM 3216	
RP24	HRTS8E470J	R CHIP ARRAY	1/16 8P 47 OHM 3216	
RP25	HRTS8E470J	R CHIP ARRAY	1/16 8P 47 OHM 3216	
RP26	HRTS8E470J	R CHIP ARRAY	1/16 8P 47 OHM 3216	
RP27	HRTS8E470J	R CHIP ARRAY	1/16 8P 47 OHM 3216	
RP28	HRTS8E470J	R CHIP ARRAY	1/16 8P 47 OHM 3216	
RP29	HRTS8E470J	R CHIP ARRAY	1/16 8P 47 OHM 3216	
RP3	HRTS8E470J	R CHIP ARRAY	1/16 8P 47 OHM 3216	
RP30	HRTS8E470J	R CHIP ARRAY	1/16 8P 47 OHM 3216	
RP31	HRTS8E470J	R CHIP ARRAY	1/16 8P 47 OHM 3216	
RP32	HRTS8E470J	R CHIP ARRAY	1/16 8P 47 OHM 3216	
RP33	HRTS8E470J	R CHIP ARRAY	1/16 8P 47 OHM 3216	
RP34	HRTS8E470J	R CHIP ARRAY	1/16 8P 47 OHM 3216	
RP35	HRTS8E470J	R CHIP ARRAY	1/16 8P 47 OHM 3216	
RP36	HRTS8E470J	R CHIP ARRAY	1/16 8P 47 OHM 3216	
RP37	HRTS8E470J	R CHIP ARRAY	1/16 8P 47 OHM 3216	
RP4	HRTS8E470J	R CHIP ARRAY	1/16 8P 47 OHM 3216	